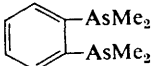
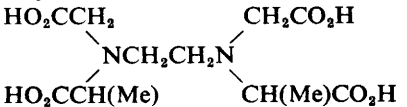
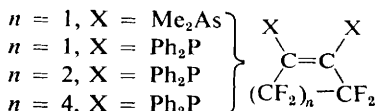


Abbreviations

acac	acetylacetonone anion
astp	tris(<i>o</i> -diphenylphosphinophenyl)arsine
ata	$\text{N}(\text{CH}_2\text{CO}_2)_3^{3-}$
azb	azobenzene
bipy	bipyridyl
bn	butylenediamine
CNDO	complete neglect of differential overlap
1,7-cth	5,7,7,12,14,14-hexamethyl-1,4,8,11-tetra-azacyclotetradecane
cydta	cyclohexanediaminotetra-acetic acid
dbm	dibenzoylmethane anion
depe	1,2-bisdiethylphosphinoethane
DHMB	Dewar hexamethylbenzene
diars	
diars'	$\text{Ph}_2\text{AsCH}_2\text{CH}_2\text{AsPh}_2$
dien	diethylenetriamine
dimetrien	$\text{H}_2\text{NCH}_2\text{CH}_2\text{NHCH}(\text{Me})\text{CH}(\text{Me})\text{NHCH}_2\text{CH}_2\text{NH}_2$
diphos } Pf-Pf }	$\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2$
dmaq	8-dimethylarsinoquinoline
DMF	dimethylformamide
dmgH	dimethylglyoxime
dmg	monoanion of dimethylglyoxime
DMSO	dimethyl sulphoxide
dpm	dipivaloylmethane
dppa	1,2-bisdiphenylphosphinoacetylene
dpt	dipropylenetriamine
ed3a	$(\text{HO}_2\text{CCH}_2)_2\text{NCH}_2\text{CH}_2\text{NHCH}_2\text{CO}_2\text{H}$
edda	ethylenediaminediacetic acid
edpa	
edta	$(\text{HO}_2\text{CCH}_2)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CO}_2\text{H})_2$
eee	$\text{H}_2\text{NCH}_2\text{CH}_2\text{SCH}_2\text{CH}_2\text{SCH}_2\text{CH}_2\text{NH}_2$
en	ethylenediamine

ffars	$n = 1, X = \text{Me}_2\text{As}$
ffos	$n = 1, X = \text{Ph}_2\text{P}$
f ₆ fos	$n = 2, X = \text{Ph}_2\text{P}$
f ₈ fos	$n = 4, X = \text{Ph}_2\text{P}$
fod	1,1,1,2,2,3,3-heptafluoro-7,7-dimethyloctane-4,6-dionato
H ₅ dtpa	$(\text{HO}_2\text{CCH}_2)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CO}_2\text{H})\text{CH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CO}_2\text{H})_2$
hfac	hexafluoroacetylacetonato
nta	$\text{R} = \text{CH}_2\text{CO}_2\text{H}$
mida	$\text{R} = \text{Me}$
ida	$\text{R} = \text{H}$
4-mpdpa	4-methyl-2-pyridyl-di-(2-pyridyl)amine
OECy	—SCH ₂ CH(NH ₂)CO ₂ Et
pdta	propylenediaminetetra-acetic acid
Pf= Pf	Ph ₂ PCH=CHPPh ₂
phen	1,10-phenanthroline
pic	picoline
γ-picO	γ-picoline <i>N</i> -oxide
Pm-Pm	Me ₂ PCH ₂ CH ₂ PMe ₂
pn	propylenediamine
ptas	tris(<i>o</i> -diphenylarsinophenyl)phosphine
py	pyridine
pyO	pyridine <i>N</i> -oxide
qp	tris(<i>o</i> -diphenylphosphinophenyl)phosphine
R-en	RNHCH ₂ CH ₂ NH ₂
sal	salicylate anion
salen	<i>NN'</i> -ethylenebis(salicylaldiminato)
sbtP	tris(<i>o</i> -diphenylphosphinophenyl)stibine
SMCy	MeSCH ₂ CH(NH ₂)CO ₂ ⁻
sp	<i>o</i> -CH ₂ =CHC ₆ H ₄ PPh ₂
tcne	tetracyanoethylene
terpy	2,2',2''-terpyridyl
terpyO ₃	2,2',2''-terpyridyl <i>NN'N''</i> -trioxide
tetren	tetraethylenepentamine
THF	tetrahydrofuran
tmed	Me ₂ NCH ₂ CH ₂ NMe ₂
TPP	tetraphenylporphorin
trien	triethylenetetramine
tripyam	tri-(2-pyridyl)amine
tta	anion of thenoyltrifluoroacetone
ttn	1,1,1-tris(dimethylaminomethyl)ethane
tu	thiourea



Conversion factors					
	cm ⁻¹	J mol ⁻¹	eV	kcal mol ⁻¹	Mc s ⁻¹ (MHz)
cm ⁻¹	1	11.957	1.2394 × 10 ⁻⁴	2.8584 × 10 ⁻³	2.9979 × 10 ⁴
J mol ⁻¹	8.3626 × 10 ⁻²	1	1.0364 × 10 ⁻⁵	2.3904 × 10 ⁻⁴	2506.2
eV	8068.3	9.6484 × 10 ⁴	1	2.3063	2.4188 × 10 ⁸
kcal mol ⁻¹	349.83	4183.3	4.3359 × 10 ⁻²	1	1.0487 × 10 ⁷
Mc s ⁻¹ (MHz)	3.3356 × 10 ⁻⁵	3.9903 × 10 ⁻⁴	4.1344 × 10 ⁻⁹	9.5345 × 10 ⁻⁸	1

Mössbauer spectra

For ⁵⁷Fe ($E_\gamma = 14.413$ keV): $1 \text{ mm s}^{-1} = 3.879 \times 10^{-4} \text{ cm}^{-1} = 4.638 \times 10^{-3} \text{ J mol}^{-1}$
 $= 4.809 \times 10^{-8} \text{ eV} = 1.109 \times 10^{-6} \text{ kcal mol}^{-1}$
 $= 11.63 \text{ Mc s}^{-1} (\text{MHz})$

For other nuclides multiply the above conversion factors by E_γ (keV)/14.413.

