PHOSPHINE, TRIS(4-METHOXYPHENYL)-

Other names:	NSC 136458
	Phosphine, tris(p-methoxyphenyl)-
	Phosphorus tri-(p-methoxyphenyl)
	Tri(p-methoxyphenyl)phosphine
	Tri-p-anisylphosphine
	Trianisylphosphine
	Tris(4-anisyl)phosphine
	Tris(p-anisyl)phosphine
	tri-(4-Methoxyphenyl)phosphine
	tris(4-methoxyphenyl)phosphane
	tris(4-methoxyphenyl)phosphine
	tris(p-methoxyphenyl)phosphine
Inchi:	InChI=1S/C21H21O3P/c1-22-16-4-10-19(11-5-16)25(20-12-6-17(23-2)7-13-20)21-14-8-1
InchiKey:	UYUUAUOYLFIRJG-UHFFFAOYSA-N
Formula:	C21H21O3P
SMILES:	COc1ccc(P(c2ccc(OC)cc2)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	352.37

Physical Properties

Property code	Value	Unit	Source
hf	-249.60	kJ/mol	Cheméo Relay (1.0)
hfus	25.67	kJ/mol	Solubilities of Phosphorus-Containing Compounds in Selected Solvents
hvap	110.12	kJ/mol	Cheméo Relay (1.0)
ie	7.48	eV	NIST Webbook
log10ws	-6.92		Cheméo Relay (1.0)
logp	3.471		Crippen Method
mcvol	273.540	ml/mol	McGowan Method
pc	1932.80	kPa	Cheméo Relay (1.0, beta)
tb	727.02	K	Cheméo Relay (1.0)
tc	972.78	K	Cheméo Relay (1.0)

tf	403.65	K	Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, p-Methoxyphenylphosphinic Acid, p-Methoxyphenylhydroxymethylphosphinic Acid, Triphenylphosphine, Tri(p-methoxyphenyl)phosphine, and Tri(p-methoxyphenyl)phosphine Oxide in Selected Solvents

Sources

Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, p-Methoxyphenylphosphinic Acid, p-Methoxyphenylhydroxymethylphosphinic Acid, Triphenylphosphine, Tri(p-methoxyphenyl)phosphine, and Tri(p-methoxyphenyl)phosphine Oxide in Selected Solvents:	https://www.doi.org/10.1021/je050377q
Solubilities of Phosphorus-Containing Compounds in Selected Solvents:	https://www.doi.org/10.1021/je100341q
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C855389&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point