1,3,4-Oxadiazole, 2,5-diphenyl-

Other names:	2,5-Diphenyloxadiazole
	2,5-Diphenyl-1,3,4-oxadiazole
	PPD
	PPD (Scintillator)
Inchi:	InChI=1S/C14H10N2O/c1-3-7-11(8-4-1)13-15-16-14(17-13)12-9-5-2-6-10-12/h1-10H
InchiKey:	DCJKUXYSYJBBRD-UHFFFAOYSA-N
Formula:	C14H10N2O
SMILES:	c1ccc(-c2nnc(-c3ccccc3)o2)cc1
Mol. weight [g/mol]:	222.24
CAS:	725-12-2

Physical Properties

Property code	Value	Unit	Source
chs	-7014.00 ± 4.00	kJ/mol	NIST Webbook
chs	-7103.60 ± 8.40	kJ/mol	NIST Webbook
hfs	75.70	kJ/mol	NIST Webbook
ie	8.90 ± 0.30	eV	NIST Webbook
log10ws	-9.94		Crippen Method
logp	3.404		Crippen Method
mcvol	166.970	ml/mol	McGowan Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	504.20	K	1.70	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C725122&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chs:	Standard solid enthalpy of combustion
hfs:	Solid phase enthalpy of formation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure