

Diphenyl-1,2,5-oxadiazole

Other names:	Furazan, diphenyl- 3,4-Diphenyl-1,2,5-oxadiazole 3,4-Diphenylfurazan Diphenylfurazan
Inchi:	InChI=1S/C14H10N2O/c1-3-7-11(8-4-1)13-14(16-17-15-13)12-9-5-2-6-10-12/h1-10H
InchiKey:	RIIIXRZGXAJVEQ-UHFFFAOYSA-N
Formula:	C14H10N2O
SMILES:	<chem>c1ccc(-c2nonc2-c2ccccc2)cc1</chem>
Mol. weight [g/mol]:	222.24
CAS:	19768-02-6

Physical Properties

Property code	Value	Unit	Source
chs	-7267.20 ± 8.40	kJ/mol	NIST Webbook
log10ws	-9.94		Crippen Method
logp	3.404		Crippen Method
mvol	166.970	ml/mol	McGowan Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	475.20	K	2.30	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19768026&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

chs:	Standard solid enthalpy of combustion
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure

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