

Phencyclidine

Other names:	1-(1-Phenylcyclohexyl)piperidine Angel dust CI-395 CI-395 ElySION HOG PCP PCP (anesthetic) Phencylidine Piperidine, 1-(1-phenylcyclohexyl)- Sernyl Sernylan
Inchi:	InChI=1S/C17H25N/c1-4-10-16(11-5-1)17(12-6-2-7-13-17)18-14-8-3-9-15-18/h1,4-5,10-17
InchiKey:	JTJMJGYZQZDUJJ-UHFFFAOYSA-N
Formula:	C17H25N
SMILES:	<chem>c1ccc(C2(N3CCCCC3)CCCCC2)cc1</chem>
Mol. weight [g/mol]:	243.39
CAS:	77-10-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.57		Crippen Method
logp	4.332		Crippen Method
mccvol	214.890	ml/mol	McGowan Method
rinpol	1860.00		NIST Webbook
rinpol	1918.00		NIST Webbook
rinpol	1860.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1879.00		NIST Webbook
rinpol	1859.00		NIST Webbook
rinpol	1880.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1879.00		NIST Webbook
rinpol	1870.00		NIST Webbook
rinpol	1860.00		NIST Webbook
rinpol	1904.00		NIST Webbook

rinpol	1879.00	NIST Webbook
rinpol	1859.00	NIST Webbook
rinpol	1918.00	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	77.60	kJ/mol	298.00	The Vaporization Enthalpy and vapor Pressure of Fenpropidin and Phencyclidine (PCP) at T/K = 298.15 by Correlation Gas Chromatography

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	409.20	K	0.10	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
The Vaporization Enthalpy and vapor Pressure of Fenpropidin and Phencyclidine (PCP) at T/K = 298.15 by Correlation Gas Chromatography:	https://www.doi.org/10.1021/acs.jced.5b00737
NIST Webbook:	http://link.springer.com/article/10.1007/BF02311772 http://webbook.nist.gov/cgi/cbook.cgi?ID=C77101&Units=SI

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices
tbrp: Boiling point at reduced pressure

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