

Pencycuron

Other names:

1-[(4-chlorophenyl)methyl]-1-cyclopentyl-3-phenylurea
Bay NTN 19701
Monceren
N-((4-Chlorophenyl)methyl)-N-cyclopentyl-N'-phenylurea
Trotis
Urea, N-[(4-chlorophenyl)methyl]-N-cyclopentyl-N'-phenyl-
[(Chlorophenyl)-methyl]-N-cyclopentyl-N'-phenylurea

Inchi: InChI=1S/C19H21ClN2O/c20-16-12-10-15(11-13-16)14-22(18-8-4-5-9-18)19(23)21-17-6**InchiKey:** OGYFATSSENRIKG-UHFFFAOYSA-N**Formula:** C19H21ClN2O**SMILES:** O=C(Nc1ccccc1)N(Cc1ccc(Cl)cc1)C1CCCC1**Mol. weight [g/mol]:** 328.84**CAS:** 66063-05-6

Physical Properties

Property code	Value	Unit	Source
gf	420.16	kJ/mol	Joback Method
hf	79.26	kJ/mol	Joback Method
hfus	40.51	kJ/mol	Joback Method
hvap	82.97	kJ/mol	Joback Method
log10ws	-5.92		Estimated Solubility Method
log10ws	-5.91		Aqueous Solubility Prediction Method
logp	5.317		Crippen Method
mvol	253.960	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpol	1690.00		NIST Webbook
rinpol	1690.00		NIST Webbook
tb	861.65	K	Joback Method
tc	1109.11	K	Joback Method
tf	545.13	K	Joback Method
vc	0.932	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.17	J/molxK	861.65	Joback Method
cpg	782.97	J/molxK	902.89	Joback Method
cpg	797.39	J/molxK	944.14	Joback Method
cpg	810.57	J/molxK	985.38	Joback Method
cpg	822.64	J/molxK	1026.62	Joback Method
cpg	833.75	J/molxK	1067.86	Joback Method
cpg	844.03	J/molxK	1109.11	Joback Method

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C66063056&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/56-104-4/Pencycuron.pdf>

Generated by Cheméo on 2024-04-26 16:50:27.419001728 +0000 UTC m=+16439476.339579040.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.