

Urea, N'-[4-(4-methoxyphenoxy)phenyl]-N,N-dimethyl-

Other names:

C 3470

Difenoxuron

Difenoxurone

Lironion

N'-(4-(4-Methoxyphenoxy)phenyl)-N,N-dimethylurea

Pinoran

Urea, 1,1-dimethyl-3-(p-(p-methoxyphenoxy)phenyl)-

Inchi: InChI=1S/C16H18N2O3/c1-18(2)16(19)17-12-4-6-14(7-5-12)21-15-10-8-13(20-3)9-11-15

InchiKey: AMVYOYGIJXTQB-UHFFFAOYSA-N

Formula: C16H18N2O3

SMILES: COc1ccc(Oc2ccc(NC(=O)N(C)C)cc2)cc1

Mol. weight [g/mol]: 286.33

CAS: 14214-32-5

Physical Properties

Property code	Value	Unit	Source
gf	150.65	kJ/mol	Joback Method
hf	-179.47	kJ/mol	Joback Method
hfus	36.59	kJ/mol	Joback Method
hvap	77.13	kJ/mol	Joback Method
log10ws	-4.16		Aqueous Solubility Prediction Method
log10ws	-4.16		Estimated Solubility Method
logp	3.581		Crippen Method
mvol	222.050	ml/mol	McGowan Method
pc	2306.95	kPa	Joback Method
tb	790.12	K	Joback Method
tc	1016.83	K	Joback Method
tf	527.48	K	Joback Method
vc	0.810	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	636.97	J/mol×K	790.12	Joback Method
cpg	651.44	J/mol×K	827.90	Joback Method
cpg	664.70	J/mol×K	865.69	Joback Method
cpg	676.79	J/mol×K	903.47	Joback Method
cpg	687.74	J/mol×K	941.26	Joback Method
cpg	697.59	J/mol×K	979.04	Joback Method
cpg	706.37	J/mol×K	1016.83	Joback Method

Sources

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=C14214325&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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
hvp:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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