Propoxur

Other names:

2-(1-Methylethoxy)phenol methylcarbamate
2-(1-Methylethoxy)phenyl N-methylcarbamate
2-(1-Methylethoxy)phenyl methyl carbamate
2-Isopropoxyphenyl N-methylcarbamate
2-Isopropoxyphenyl methylcarbamate
2-Isopropoxyphenyl-N-methylcarbamat
58 12 315
Aprocarb
Arprocarb
BAY 39007
BAY 5122
BAY 9010
Bayer 39007
Bayer B 5122
Baygon
Bifex
Blattanex
Blattosep
Bolfo
Boruho
Boruho 50
Boygon
Brygou
Carbamic acid, methyl-, 2-(1-methylethoxy)phenyl ester
Carbamic acid, methyl-, o-isopropoxyphenyl ester
Chemagro 9010
Dalf Dust
ENT 25,671
IPMC
Invisi-Gard
Isocarb
Mrowkozol
N-Methyl-2-isopropoxyphenylcarbamate
O-(2-Isopropoxyphenyl) N-methylcarbamate
OMS 33
PHC
PHC 7
Phenol, 2-(1-methylethoxy)-, 1-(N-methylcarbamate)
Phenol, 2-(1-methylethoxy)-, methylcarbamate
Phenol, o-isopropoxy-, methylcarbamate

	Pillargon
	Propogon
	Propoksuru
	Propotox
	Propoxure
	Propoxylor
	Propyon
	Rhoden
	Sendran
	Suncide
	Tendex
	Tugon fliegenkugel
	Unden
	Unden (Pesticide)
	Unden 50PM
	o-IMPC
	o-Isopropoxyphenyl N-methylcarbamate
	o-Isopropoxyphenyl methylcarbamate
Inchi:	InChI=1S/C11H15NO3/c1-8(2)14-9-6-4-5-7-10(9)15-11(13)12-3/h4-8H,1-3H3,(H,12,13)
InchiKey:	ISRUGXGCCGIOQO-UHFFFAOYSA-N
Formula:	C11H19NO3
SMILES:	CNC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	213.27
CAS:	114-26-1

Physical Properties

Property code	Value	Unit	Source
gf	-107.45	kJ/mol	Joback Method
hf	-374.14	kJ/mol	Joback Method
hfus	23.45	kJ/mol	Joback Method
hvap	60.63	kJ/mol	Joback Method
log10ws	-2.05		Aqueous Solubility Prediction Method
log10ws	-2.05		Estimated Solubility Method
logp	2.192		Crippen Method
mcvol	165.380	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	1564.00		NIST Webbook
rinpol	1606.00		NIST Webbook

rinpol	1610.00		NIST Webbook
ripol	1770.00		NIST Webbook
tb	631.18	K	Joback Method
tc	843.23	K	Joback Method
tf	363.90	K	Aqueous Solubility Prediction Method
vc	0.615	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.33	J/mol×K	631.18	Joback Method
cpg	435.43	J/mol×K	666.52	Joback Method
cpg	448.71	J/mol×K	701.86	Joback Method
cpg	461.18	J/mol×K	737.20	Joback Method
cpg	472.84	J/mol×K	772.55	Joback Method
cpg	483.69	J/mol×K	807.89	Joback Method
cpg	493.74	J/mol×K	843.23	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=C114261&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume