Mephenoxalone

Other names:	2-Oxazolidinone, 5-[(2-methoxyphenoxy)methyl]-
	2-Oxazolidinone, 5-[(o-methoxyphenoxy)methyl]-
	AHR 233
	Control-OM
	Dorsiflex
	Dorsilon
	Ekilan
	Lenetran
	Lenetran Tab
	Lenetranat
	Methoxadone
	Methoxydon
	Methoxydone
	Metoxadon
	Metoxadone
	Moderamin
	OM-518
	Placidex
	Riself
	Tranpoise
	Trepidone
	Valans
	Xerene
	5-[(o-Methoxyphenoxy)methyl]-2-oxazolidinone
	5-[(o-Methoxyphenoxy)methyl]-2-oxazolidone
	Alkapol peg-400
	CL 27,319
	Mefenoxalona
	Mefenoxalone
	Oxazolidinone
	Transpoise
	Valanas
Inchi:	InChI=1S/C11H13NO4/c1-14-9-4-2-3-5-10(9)15-7-8-6-12-11(13)16-8/h2-5,8H,6-7H2,1H3
InchiKey:	ZMNSRFNUONFLSP-UHFFFAOYSA-N
Formula:	C11H13NO4
SMILES:	COc1ccccc1OCC1CNC(=O)O1
Mol. weight [g/mol]:	223.23
CAS:	70-07-5

Physical Properties

Property code	Value	Unit	Source
gf	-149.93	kJ/mol	Joback Method
hf	-481.16	kJ/mol	Joback Method
hfus	31.29	kJ/mol	Joback Method
hvap	63.61	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.182		Crippen Method
mcvol	160.390	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
rinpol	2155.00		NIST Webbook
rinpol	2155.00		NIST Webbook
tb	686.18	K	Joback Method
tc	930.05	K	Joback Method
tf	507.85	K	Joback Method
vc	0.586	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.19	J/mol×K	686.18	Joback Method
cpg	459.33	J/mol×K	726.82	Joback Method
cpg	474.30	J/mol×K	767.47	Joback Method
cpg	488.06	J/mol×K	808.11	Joback Method
cpg	500.57	J/mol×K	848.76	Joback Method
cpg	511.79	J/mol×K	889.40	Joback Method
cpg	521.67	J/mol×K	930.05	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C70075&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume