

2-Phenoxyethyl myristate

Inchi:	InChI=1S/C22H36O3/c1-2-3-4-5-6-7-8-9-10-11-15-18-22(23)25-20-19-24-21-16-13-12-14
InchiKey:	CAMSOPCHBVWZNI-UHFFFAOYSA-N
Formula:	C22H36O3
SMILES:	CCCCCCCCCCCC(=O)OCCOc1ccccc1
Mol. weight [g/mol]:	348.52

Physical Properties

Property code	Value	Unit	Source
gf	-92.15	kJ/mol	Joback Method
hf	-637.90	kJ/mol	Joback Method
hfus	50.75	kJ/mol	Joback Method
hvap	78.41	kJ/mol	Joback Method
log10ws	-6.73		Crippen Method
logp	6.310		Crippen Method
mvol	310.390	ml/mol	McGowan Method
pc	1133.67	kPa	Joback Method
rinpol	2534.00		NIST Webbook
tb	828.15	K	Joback Method
tc	1021.28	K	Joback Method
tf	458.51	K	Joback Method
vc	1.202	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.77	J/molxK	828.15	Joback Method
cpg	1057.34	J/molxK	989.09	Joback Method
cpg	1043.41	J/molxK	956.90	Joback Method
cpg	1028.42	J/molxK	924.72	Joback Method
cpg	1012.33	J/molxK	892.53	Joback Method
cpg	995.13	J/molxK	860.34	Joback Method
cpg	1070.24	J/molxK	1021.28	Joback Method
dvisc	0.0000426	Paxs	828.15	Joback Method
dvisc	0.0000564	Paxs	766.54	Joback Method

dvisc	0.0000786	Paxs	704.94	Joback Method
dvisc	0.0001166	Paxs	643.33	Joback Method
dvisc	0.0001882	Paxs	581.72	Joback Method
dvisc	0.0003400	Paxs	520.12	Joback Method
dvisc	0.0007203	Paxs	458.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540831&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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