

2-Phenoxyethyl pentadecanoate

Inchi:	InChI=1S/C23H38O3/c1-2-3-4-5-6-7-8-9-10-11-12-16-19-23(24)26-21-20-25-22-17-14-13
InchiKey:	JBDLVZUAMGDPCD-UHFFFAOYSA-N
Formula:	C23H38O3
SMILES:	CCCCCCCCCCCCC(=O)OCCOc1ccccc1
Mol. weight [g/mol]:	362.55

Physical Properties

Property code	Value	Unit	Source
gf	-83.73	kJ/mol	Joback Method
hf	-658.54	kJ/mol	Joback Method
hfus	53.34	kJ/mol	Joback Method
hvap	80.63	kJ/mol	Joback Method
log10ws	-7.15		Crippen Method
logp	6.700		Crippen Method
mcvol	324.480	ml/mol	McGowan Method
pc	1063.79	kPa	Joback Method
rinpol	2650.00		NIST Webbook
tb	851.03	K	Joback Method
tc	1046.21	K	Joback Method
tf	469.78	K	Joback Method
vc	1.258	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1037.81	J/molxK	851.03	Joback Method
cpg	1056.42	J/molxK	883.56	Joback Method
cpg	1073.83	J/molxK	916.09	Joback Method
cpg	1090.07	J/molxK	948.62	Joback Method
cpg	1105.17	J/molxK	981.15	Joback Method
cpg	1119.17	J/molxK	1013.68	Joback Method
cpg	1132.11	J/molxK	1046.21	Joback Method
dvisc	0.0006445	Paxs	469.78	Joback Method
dvisc	0.0003012	Paxs	533.32	Joback Method

dvisc	0.0001655	Paxs	596.86	Joback Method
dvisc	0.0001020	Paxs	660.40	Joback Method
dvisc	0.0000685	Paxs	723.95	Joback Method
dvisc	0.0000490	Paxs	787.49	Joback Method
dvisc	0.0000369	Paxs	851.03	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540866&Units=SI

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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