

2-Phenoxyethyl undecanoate

Inchi: InChI=1S/C19H30O3/c1-2-3-4-5-6-7-8-12-15-19(20)22-17-16-21-18-13-10-9-11-14-18/h9-11,13-15,17-19,21-22,24-25H,1-8H2,20H3
InchiKey: YHLMXXACBOHIQC-UHFFFAOYSA-N
Formula: C19H30O3
SMILES: CCCCCCCCCC(=O)OCCOc1ccccc1
Mol. weight [g/mol]: 306.44

Physical Properties

Property code	Value	Unit	Source
gf	-117.41	kJ/mol	Joback Method
hf	-575.98	kJ/mol	Joback Method
hfus	42.98	kJ/mol	Joback Method
hvap	71.73	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	5.139		Crippen Method
mcvol	268.120	ml/mol	McGowan Method
pc	1390.22	kPa	Joback Method
rinpol	2221.00		NIST Webbook
tb	759.51	K	Joback Method
tc	950.63	K	Joback Method
tf	424.70	K	Joback Method
vc	1.034	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	798.38	J/mol×K	759.51	Joback Method
cpg	816.03	J/mol×K	791.36	Joback Method
cpg	832.64	J/mol×K	823.22	Joback Method
cpg	848.24	J/mol×K	855.07	Joback Method
cpg	862.84	J/mol×K	886.92	Joback Method
cpg	876.48	J/mol×K	918.77	Joback Method
cpg	889.18	J/mol×K	950.63	Joback Method
dvisc	0.0009798	Pa×s	424.70	Joback Method
dvisc	0.0004782	Pa×s	480.50	Joback Method

dvisc	0.0002710	Pa×s	536.30	Joback Method
dvisc	0.0001709	Pa×s	592.11	Joback Method
dvisc	0.0001167	Pa×s	647.91	Joback Method
dvisc	0.0000846	Pa×s	703.71	Joback Method
dvisc	0.0000644	Pa×s	759.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540891&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
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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