Ethanol, 2-phenoxy-, acetate

Other names:	Acetic acid «beta»-phenoxyethyl ester
	Ethylene glycol phenyl ether acetate
	Phenoxyethyl acetate
	2-Phenoxyethanol acetate
	2-Phenoxyethyl acetate
	Acetic acid 2-phenoxyethyl ester
	2-Phenoxyethylester kyseliny octove
Inchi:	InChI=1S/C10H12O3/c1-9(11)12-7-8-13-10-5-3-2-4-6-10/h2-6H,7-8H2,1H3
InchiKey:	WHFKYDMBUMLWDA-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	CC(=O)OCCOc1ccccc1
Mol. weight [g/mol]:	180.20
CAS:	6192-44-5

Physical Properties

Property code	Value	Unit	Source
gf	-193.19	kJ/mol	Joback Method
hf	-390.22	kJ/mol	Joback Method
hfus	19.67	kJ/mol	Joback Method
hvap	51.70	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.628		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
tb	553.59	K	Joback Method
tc	764.02	K	Joback Method
tf	323.27	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.39	J/mol×K	553.59	Joback Method
cpg	337.72	J/mol×K	588.66	Joback Method

cpg	350.35	J/mol×K	623.73	Joback Method
cpg	362.28	J/mol×K	658.81	Joback Method
cpg	373.51	J/mol×K	693.88	Joback Method
cpg	384.06	J/mol×K	728.95	Joback Method
cpg	393.92	J/mol×K	764.02	Joback Method
dvisc	0.0017440	Pa×s	323.27	Joback Method
dvisc	0.0009735	Pa×s	361.66	Joback Method
dvisc	0.0006077	Pa×s	400.04	Joback Method
dvisc	0.0004120	Pa×s	438.43	Joback Method
dvisc	0.0002974	Pa×s	476.82	Joback Method
dvisc	0.0002253	Pa×s	515.20	Joback Method
dvisc	0.0001774	Pa×s	553.59	Joback Method

Sources

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=C6192445&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume