1-Phenoxypropan-2-ol

Other names:	Phenyl-«beta»-hydroxypropyl ether
	1-Phenoxy-2-propanol
	2-Propanol, 1-phenoxy-
	Phenoxyisopropanol
	Propylene phenoxetol
	2-Phenoxy-1-methylethanol
	Propylenephenoxythol
	Propylene glycol 1-phenyl ether
Inchi:	InChI=1S/C9H12O2/c1-8(10)7-11-9-5-3-2-4-6-9/h2-6,8,10H,7H2,1H3
InchiKey:	IBLKWZIFZMJLFL-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	CC(O)COc1ccccc1
Mol. weight [g/mol]:	152.19
CAS:	770-35-4

Physical Properties

Property code	Value	Unit	Source
gf	-106.95	kJ/mol	Joback Method
hf	-282.29	kJ/mol	Joback Method
hfus	14.86	kJ/mol	Joback Method
hvap	56.61	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.446		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
rinpol	1246.40		NIST Webbook
rinpol	1214.80		NIST Webbook
rinpol	1214.80		NIST Webbook
tb	546.16	K	Joback Method
tc	743.59	K	Joback Method
tf	285.66	K	Joback Method
vc	0.463	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.72	J/mol×K	743.59	Joback Method
cpg	342.94	J/mol×K	710.68	Joback Method
cpg	333.61	J/mol×K	677.78	Joback Method
cpg	323.69	J/mol×K	644.87	Joback Method
cpg	313.19	J/mol×K	611.97	Joback Method
cpg	302.08	J/mol×K	579.06	Joback Method
cpg	290.35	J/mol×K	546.16	Joback Method
dvisc	0.0150105	Pa×s	285.66	Joback Method
dvisc	0.0000890	Pa×s	546.16	Joback Method
dvisc	0.0001447	Pa×s	502.74	Joback Method
dvisc	0.0002578	Pa×s	459.33	Joback Method
dvisc	0.0005180	Pa×s	415.91	Joback Method
dvisc	0.0012248	Pa×s	372.49	Joback Method
dvisc	0.0036345	Pa×s	329.08	Joback Method
hvapt	59.50	kJ/mol	449.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C770354&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
hvapt: Enthalpy of vaporization at a given temperature

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