1-Propanol, 3-phenoxy-

Other names:	3-Phenoxy-1-propanol
	3-phenoxypropan-1-ol
Inchi:	InChI=1S/C9H12O2/c10-7-4-8-11-9-5-2-1-3-6-9/h1-3,5-6,10H,4,7-8H2
InchiKey:	AWVDYRFLCAZENH-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	OCCCOc1ccccc1
Mol. weight [g/mol]:	152.19
CAS:	6180-61-6

Physical Properties

Property code	Value	Unit	Source
gf	-104.51	kJ/mol	Joback Method
hf	-277.01	kJ/mol	Joback Method
hfus	18.38	kJ/mol	Joback Method
hvap	56.99	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.448		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
rinpol	1371.00		NIST Webbook
ripol	2063.00		NIST Webbook
tb	546.60	K	Joback Method
tc	740.02	K	Joback Method
tf	300.66	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.99	J/mol×K	546.60	Joback Method
cpg	341.42	J/mol×K	707.78	Joback Method
cpg	332.25	J/mol×K	675.55	Joback Method
cpg	322.54	J/mol×K	643.31	Joback Method
cpg	312.27	J/mol×K	611.07	Joback Method

cpg	301.43	J/mol×K	578.84	Joback Method
cpg	350.05	J/mol×K	740.02	Joback Method
dvisc	0.0000946	Pa×s	546.60	Joback Method
dvisc	0.0001483	Pa×s	505.61	Joback Method
dvisc	0.0002518	Pa×s	464.62	Joback Method
dvisc	0.0004735	Pa×s	423.63	Joback Method
dvisc	0.0010196	Pa×s	382.64	Joback Method
dvisc	0.0026389	Pa×s	341.65	Joback Method
dvisc	0.0088520	Pa×s	300.66	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6180616&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
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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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