

2-(4-Methoxyphenoxy)ethanol

Other names:	2-(4'-Methoxyphenoxy)ethanol Ethanol, 2-[4-methoxyphenoxy]-
Inchi:	InChI=1S/C9H12O3/c1-11-8-2-4-9(5-3-8)12-7-6-10/h2-5,10H,6-7H2,1H3
InchiKey:	OOWGFJQYZCXHEY-UHFFFAOYSA-N
Formula:	C9H12O3
SMILES:	COc1ccc(OCCO)cc1
Mol. weight [g/mol]:	168.19
CAS:	5394-57-0

Physical Properties

Property code	Value	Unit	Source
gf	-219.14	kJ/mol	Joback Method
hf	-420.70	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	60.06	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.066		Crippen Method
mcvol	131.520	ml/mol	McGowan Method
pc	3427.87	kPa	Joback Method
tb	574.00	K	Joback Method
tc	766.94	K	Joback Method
tf	335.41	K	Joback Method
vc	0.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.72	J/mol×K	574.00	Joback Method
cpg	323.76	J/mol×K	606.16	Joback Method
cpg	334.29	J/mol×K	638.31	Joback Method
cpg	344.32	J/mol×K	670.47	Joback Method
cpg	353.84	J/mol×K	702.63	Joback Method
cpg	362.85	J/mol×K	734.79	Joback Method
cpg	371.36	J/mol×K	766.94	Joback Method

dvisc	0.0031729	Pa×s	335.41	Joback Method
dvisc	0.0011899	Pa×s	375.18	Joback Method
dvisc	0.0005385	Pa×s	414.94	Joback Method
dvisc	0.0002799	Pa×s	454.71	Joback Method
dvisc	0.0001617	Pa×s	494.47	Joback Method
dvisc	0.0001013	Pa×s	534.24	Joback Method
dvisc	0.0000678	Pa×s	574.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5394570&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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