

Ethylene glycol, O-methyl-,O'-(2-methoxy)benzoate

Inchi:	InChI=1S/C11H14O4/c1-13-7-8-15-11(12)9-5-3-4-6-10(9)14-2/h3-6H,7-8H2,1-2H3
InchiKey:	GFYWCUFTXLOBTQ-UHFFFAOYSA-N
Formula:	C11H14O4
SMILES:	COCCOC(=O)c1ccccc1OC
Mol. weight [g/mol]:	210.23
CAS:	948839-90-5

Physical Properties

Property code	Value	Unit	Source
gf	-299.40	kJ/mol	Joback Method
hf	-554.55	kJ/mol	Joback Method
hfus	23.06	kJ/mol	Joback Method
hvap	56.99	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	1.498		Crippen Method
mvol	161.270	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinpol	1630.00		NIST Webbook
tb	603.87	K	Joback Method
tc	809.83	K	Joback Method
tf	369.29	K	Joback Method
vc	0.604	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.61	J/molxK	603.87	Joback Method
cpg	409.31	J/molxK	638.20	Joback Method
cpg	422.32	J/molxK	672.52	Joback Method
cpg	434.65	J/molxK	706.85	Joback Method
cpg	446.26	J/molxK	741.17	Joback Method
cpg	457.16	J/molxK	775.50	Joback Method
cpg	467.32	J/molxK	809.83	Joback Method
dvisc	0.0009817	Paxs	369.29	Joback Method

dvisc	0.0005935	Paxs	408.39	Joback Method
dvisc	0.0003919	Paxs	447.48	Joback Method
dvisc	0.0002766	Paxs	486.58	Joback Method
dvisc	0.0002056	Paxs	525.68	Joback Method
dvisc	0.0001592	Paxs	564.77	Joback Method
dvisc	0.0001274	Paxs	603.87	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C948839905&Units=SI

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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