

Benzoic acid, 3-(2-methoxyethyl)heptyl ester

Inchi:	InChI=1S/C17H26O3/c1-3-4-8-15(11-13-19-2)12-14-20-17(18)16-9-6-5-7-10-16/h5-7,9-1
InchiKey:	DQZUKUSMWHVXAM-UHFFFAOYSA-N
Formula:	C17H26O3
SMILES:	CCCCC(CCOC)CCOC(=O)c1ccccc1
Mol. weight [g/mol]:	278.39

Physical Properties

Property code	Value	Unit	Source
gf	-136.69	kJ/mol	Joback Method
hf	-539.98	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	66.89	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.076		Crippen Method
mcvol	239.940	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinsol	2041.00		NIST Webbook
tb	713.31	K	Joback Method
tc	908.82	K	Joback Method
tf	387.16	K	Joback Method
vc	0.915	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.64	J/molxK	713.31	Joback Method
cpg	761.62	J/molxK	876.24	Joback Method
cpg	748.17	J/molxK	843.65	Joback Method
cpg	733.76	J/molxK	811.07	Joback Method
cpg	718.39	J/molxK	778.48	Joback Method
cpg	702.02	J/molxK	745.90	Joback Method
cpg	774.14	J/molxK	908.82	Joback Method
dvisc	0.0000771	Paxs	713.31	Joback Method
dvisc	0.0001026	Paxs	658.95	Joback Method

dvisc	0.0001438	Paxs	604.59	Joback Method
dvisc	0.0002154	Paxs	550.24	Joback Method
dvisc	0.0003526	Paxs	495.88	Joback Method
dvisc	0.0006514	Paxs	441.52	Joback Method
dvisc	0.0014301	Paxs	387.16	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=U368698&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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