

3-Methoxybenzoic acid, 2-propylpentyl ester

Inchi:	InChI=1S/C16H24O3/c1-4-7-13(8-5-2)12-19-16(17)14-9-6-10-15(11-14)18-3/h6,9-11,13H
InchiKey:	IHUIBBOVDBMFEX-UHFFFAOYSA-N
Formula:	C16H24O3
SMILES:	CCCC(CCC)COC(=O)c1cccc(OC)c1
Mol. weight [g/mol]:	264.36

Physical Properties

Property code	Value	Unit	Source
gf	-154.74	kJ/mol	Joback Method
hf	-530.81	kJ/mol	Joback Method
hfus	31.30	kJ/mol	Joback Method
hvap	65.33	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	4.068		Crippen Method
mvol	225.850	ml/mol	McGowan Method
pc	1734.67	kPa	Joback Method
rinpol	1938.00		NIST Webbook
tb	695.41	K	Joback Method
tc	893.53	K	Joback Method
tf	388.41	K	Joback Method
vc	0.860	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.78	J/molxK	695.41	Joback Method
cpg	645.72	J/molxK	728.43	Joback Method
cpg	661.70	J/molxK	761.45	Joback Method
cpg	676.73	J/molxK	794.47	Joback Method
cpg	690.82	J/molxK	827.49	Joback Method
cpg	704.00	J/molxK	860.51	Joback Method
cpg	716.26	J/molxK	893.53	Joback Method
dvisc	0.0012264	Paxs	388.41	Joback Method
dvisc	0.0006106	Paxs	439.58	Joback Method

dvisc	0.0003515	Paxs	490.74	Joback Method
dvisc	0.0002247	Paxs	541.91	Joback Method
dvisc	0.0001551	Paxs	593.08	Joback Method
dvisc	0.0001136	Paxs	644.24	Joback Method
dvisc	0.0000871	Paxs	695.41	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=U374929&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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