Benzoic acid, 3-hydroxy-, 3-methylbutyl ester

Inchi: InChI=1S/C12H16O3/c1-9(2)6-7-15-12(14)10-4-3-5-11(13)8-10/h3-5,8-9,13H,6-7H2,1-2H
InchiKey: VVDCIVZOAMDIRF-UHFFFAOYSA-N
Formula: C12H16O3
SMILES: CC(C)CCOC(=O)c1cccc(O)c1
Mol. weight [g/mol]: 208.25

Physical Properties

Property code	Value	Unit	Source
gf	-228.41	kJ/mol	Joback Method
hf	-481.87	kJ/mol	Joback Method
hfus	25.92	kJ/mol	Joback Method
hvap	66.36	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.595		Crippen Method
mcvol	169.490	ml/mol	McGowan Method
pc	2966.57	kPa	Joback Method
rinpol	1788.00		NIST Webbook
rinpol	1788.00		NIST Webbook
tb	657.11	K	Joback Method
tc	877.01	K	Joback Method
tf	420.30	K	Joback Method
vc	0.584	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.59	J/mol×K	657.11	Joback Method
cpg	509.60	J/mol×K	840.36	Joback Method
cpg	498.85	J/mol×K	803.71	Joback Method
cpg	487.44	J/mol×K	767.06	Joback Method
cpg	475.31	J/mol×K	730.41	Joback Method
cpg	462.38	J/mol×K	693.76	Joback Method
cpg	519.75	J/mol×K	877.01	Joback Method
dvisc	0.0000192	Pa×s	657.11	Joback Method

dvisc	0.0000294	Pa×s	617.64	Joback Method
dvisc	0.0000478	Pa×s	578.17	Joback Method
dvisc	0.0000834	Pa×s	538.71	Joback Method
dvisc	0.0001589	Pa×s	499.24	Joback Method
dvisc	0.0003381	Pa×s	459.77	Joback Method
dvisc	0.0008293	Pa×s	420.30	Joback Method

Sources

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=U375417&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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