

ethyl

[4,4,6,6,6-2H5]-5-benzyloxy-3-hydroxy-3-methylpe

Inchi: InChI=1S/C15H22O4/c1-3-19-14(16)11-15(2,17)9-10-18-12-13-7-5-4-6-8-13/h4-8,17H,3,

InchiKey: JWHXOHDFTSUPNZ-OXSMHHRZSA-N

Formula: C15H17D5O4

SMILES: CCOC(=O)CC(C)(O)CCOCc1ccccc1

Mol. weight [g/mol]: 271.36

Physical Properties

Property code	Value	Unit	Source
gf	-285.07	kJ/mol	Joback Method
hf	-654.40	kJ/mol	Joback Method
hfus	29.30	kJ/mol	Joback Method
hvap	78.21	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.297		Crippen Method
mvol	217.630	ml/mol	McGowan Method
pc	2090.75	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1915.00		NIST Webbook
tb	756.94	K	Joback Method
tc	953.72	K	Joback Method
tf	442.86	K	Joback Method
vc	0.818	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.32	J/molxK	756.94	Joback Method
cpg	652.13	J/molxK	789.74	Joback Method
cpg	665.04	J/molxK	822.53	Joback Method
cpg	677.09	J/molxK	855.33	Joback Method
cpg	688.32	J/molxK	888.13	Joback Method
cpg	698.75	J/molxK	920.92	Joback Method
cpg	708.42	J/molxK	953.72	Joback Method
dvisc	0.0008928	Paxs	442.86	Joback Method

dvisc	0.0003271	Paxs	495.21	Joback Method
dvisc	0.0001452	Paxs	547.55	Joback Method
dvisc	0.0000743	Paxs	599.90	Joback Method
dvisc	0.0000423	Paxs	652.25	Joback Method
dvisc	0.0000262	Paxs	704.59	Joback Method
dvisc	0.0000173	Paxs	756.94	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=R412414&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

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