

Hexanoic acid, 3,5,5-trimethyl-, butyl ester

Inchi:	InChI=1S/C13H26O2/c1-6-7-8-15-12(14)9-11(2)10-13(3,4)5/h11H,6-10H2,1-5H3
InchiKey:	DCWPYGIRDUULGM-UHFFFAOYSA-N
Formula:	C13H26O2
SMILES:	CCCCOC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	214.34

Physical Properties

Property code	Value	Unit	Source
gf	-174.94	kJ/mol	Joback Method
hf	-570.48	kJ/mol	Joback Method
hfus	21.28	kJ/mol	Joback Method
hvap	52.00	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.792		Crippen Method
mcvol	201.470	ml/mol	McGowan Method
pc	1746.28	kPa	Joback Method
rinpol	1340.00		NIST Webbook
rinpol	1340.00		NIST Webbook
tb	569.46	K	Joback Method
tc	749.88	K	Joback Method
tf	295.85	K	Joback Method
vc	0.770	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.93	J/molxK	569.46	Joback Method
cpg	597.48	J/molxK	719.81	Joback Method
cpg	583.13	J/molxK	689.74	Joback Method
cpg	568.02	J/molxK	659.67	Joback Method
cpg	552.13	J/molxK	629.60	Joback Method
cpg	535.45	J/molxK	599.53	Joback Method
cpg	611.11	J/molxK	749.88	Joback Method
dvisc	0.0001454	Paxs	569.46	Joback Method

dvisc	0.0002029	Paxs	523.86	Joback Method
dvisc	0.0003018	Paxs	478.26	Joback Method
dvisc	0.0004881	Paxs	432.66	Joback Method
dvisc	0.0008840	Paxs	387.05	Joback Method
dvisc	0.0018762	Paxs	341.45	Joback Method
dvisc	0.0050223	Paxs	295.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406054&Units=SI
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

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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