

Hexanoic acid, 3,5,5-trimethyl-, hex-4-yn-3-yl ester

Inchi: InChI=1S/C15H26O2/c1-7-9-13(8-2)17-14(16)10-12(3)11-15(4,5)6/h12-13H,8,10-11H2,1
InchiKey: PMXBDMXRFMGOQD-UHFFFAOYSA-N
Formula: C15H26O2
SMILES: CC#CC(CC)OC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]: 238.37

Physical Properties

Property code	Value	Unit	Source
gf	42.26	kJ/mol	Joback Method
hf	-344.74	kJ/mol	Joback Method
hfus	26.05	kJ/mol	Joback Method
hvap	58.22	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.794		Crippen Method
mcvol	221.050	ml/mol	McGowan Method
pc	1711.78	kPa	Joback Method
tb	623.78	K	Joback Method
tc	823.14	K	Joback Method
tf	409.49	K	Joback Method
vc	0.839	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	584.62	J/mol×K	623.78	Joback Method
cpg	603.07	J/mol×K	657.01	Joback Method
cpg	620.55	J/mol×K	690.23	Joback Method
cpg	637.06	J/mol×K	723.46	Joback Method
cpg	652.67	J/mol×K	756.69	Joback Method
cpg	667.38	J/mol×K	789.91	Joback Method
cpg	681.25	J/mol×K	823.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406820&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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