

Cyclohexane, 1-hexylcarbonyl-4-(1,1-dimethylethyl), # 2

Inchi: InChI=1S/C17H32O/c1-5-6-7-8-9-16(18)14-10-12-15(13-11-14)17(2,3)4/h14-15H,5-13H2
InchiKey: SCAVUHKXZBPJLH-UHFFFAOYSA-N
Formula: C17H32O
SMILES: CCCCCC(=O)C1CCC(C(C)(C)C)CC1
Mol. weight [g/mol]: 252.44

Physical Properties

Property code	Value	Unit	Source
gf	-17.08	kJ/mol	Joback Method
hf	-481.56	kJ/mol	Joback Method
hfus	26.88	kJ/mol	Joback Method
hvap	59.01	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.378		Crippen Method
mcvol	241.100	ml/mol	McGowan Method
pc	1483.85	kPa	Joback Method
ripol	1826.00		NIST Webbook
ripol	1874.00		NIST Webbook
ripol	1850.00		NIST Webbook
ripol	1826.00		NIST Webbook
ripol	2085.00		NIST Webbook
ripol	2085.00		NIST Webbook
ripol	2128.00		NIST Webbook
ripol	2171.00		NIST Webbook
tb	653.88	K	Joback Method
tc	852.18	K	Joback Method
tf	336.84	K	Joback Method
vc	0.914	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.83	J/molxK	653.88	Joback Method
cpg	800.06	J/molxK	819.13	Joback Method

cpg	782.41	J/molxK	786.08	Joback Method
cpg	763.61	J/molxK	753.03	Joback Method
cpg	743.62	J/molxK	719.98	Joback Method
cpg	722.37	J/molxK	686.93	Joback Method
cpg	816.61	J/molxK	852.18	Joback Method
dvisc	0.0001513	Paxs	653.88	Joback Method
dvisc	0.0002054	Paxs	601.04	Joback Method
dvisc	0.0002958	Paxs	548.20	Joback Method
dvisc	0.0004605	Paxs	495.36	Joback Method
dvisc	0.0007967	Paxs	442.52	Joback Method
dvisc	0.0015995	Paxs	389.68	Joback Method
dvisc	0.0039961	Paxs	336.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R97769&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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