

Cyclohexane, 1r,2t,4c-triethyl

Inchi:	InChI=1S/C12H24/c1-4-10-7-8-11(5-2)12(6-3)9-10/h10-12H,4-9H2,1-3H3/t10-,11+,12+/m
InchiKey:	UAVQBNTWBGIJRO-QJPTWQEYSA-N
Formula:	C12H24
SMILES:	CCC1CCC(CC)C(CC)C1
Mol. weight [g/mol]:	168.32

Physical Properties

Property code	Value	Unit	Source
gf	59.19	kJ/mol	Joback Method
hf	-277.37	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	42.12	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	4.249		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	2009.10	kPa	Joback Method
rinpol	1026.00		NIST Webbook
rinpol	1026.00		NIST Webbook
tb	484.17	K	Joback Method
tc	675.86	K	Joback Method
tf	223.90	K	Joback Method
vc	0.638	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.69	J/molxK	484.17	Joback Method
cpg	493.49	J/molxK	643.91	Joback Method
cpg	475.57	J/molxK	611.96	Joback Method
cpg	456.75	J/molxK	580.01	Joback Method
cpg	437.01	J/molxK	548.07	Joback Method
cpg	416.33	J/molxK	516.12	Joback Method
cpg	510.52	J/molxK	675.86	Joback Method
dvisc	0.0002580	Paxs	484.17	Joback Method

dvisc	0.0003206	Paxs	440.79	Joback Method
dvisc	0.0004178	Paxs	397.41	Joback Method
dvisc	0.0005809	Paxs	354.03	Joback Method
dvisc	0.0008856	Paxs	310.66	Joback Method
dvisc	0.0015483	Paxs	267.28	Joback Method
dvisc	0.0033609	Paxs	223.90	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R10927&Units=SI

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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