

Cyclohexane, 1,4-bis(methylene)-

Other names:	Cyclohexane, 1,4-dimethylene- 1,4-Dimethylenecyclohexane
Inchi:	InChI=1S/C8H12/c1-7-3-5-8(2)6-4-7/h1-6H2
InchiKey:	JPBHXVRMWGWSMX-UHFFFAOYSA-N
Formula:	C8H12
SMILES:	C=C1CCC(=C)CC1
Mol. weight [g/mol]:	108.18
CAS:	4982-20-1

Physical Properties

Property code	Value	Unit	Source
gf	154.80	kJ/mol	Joback Method
hf	64.39	kJ/mol	NIST Webbook
hfus	4.92	kJ/mol	Joback Method
hvap	34.46	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
rinpol	803.00		NIST Webbook
tb	404.98	K	Joback Method
tc	610.19	K	Joback Method
tf	218.90	K	Joback Method
vc	0.386	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.67	J/mol×K	404.98	Joback Method
cpg	201.52	J/mol×K	439.18	Joback Method
cpg	214.72	J/mol×K	473.38	Joback Method
cpg	227.28	J/mol×K	507.59	Joback Method
cpg	239.22	J/mol×K	541.79	Joback Method
cpg	250.55	J/mol×K	575.99	Joback Method

cpg	261.29	J/mol×K	610.19	Joback Method
dvisc	0.0030331	Pa×s	218.90	Joback Method
dvisc	0.0015976	Pa×s	249.91	Joback Method
dvisc	0.0009695	Pa×s	280.93	Joback Method
dvisc	0.0006497	Pa×s	311.94	Joback Method
dvisc	0.0004681	Pa×s	342.95	Joback Method
dvisc	0.0003561	Pa×s	373.97	Joback Method
dvisc	0.0002825	Pa×s	404.98	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=C4982201&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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