

1,1'-Bicyclohexyl, 2-methyl-, trans-

Other names:	Bicyclohexyl, 2-methyl-, trans-
Inchi:	InChI=1S/C13H24/c1-11-7-5-6-10-13(11)12-8-3-2-4-9-12/h11-13H,2-10H2,1H3/t11-,13-/r
InchiKey:	SRCQYSQCKOUHTG-DGCLKSJQSA-N
Formula:	C13H24
SMILES:	CC1CCCCC1C1CCCCC1
Mol. weight [g/mol]:	180.33
CAS:	50991-09-8

Physical Properties

Property code	Value	Unit	Source
chl	-7824.00	kJ/mol	NIST Webbook
gf	99.77	kJ/mol	Joback Method
hf	-223.35	kJ/mol	Joback Method
hfus	14.17	kJ/mol	Joback Method
hvap	45.08	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.393		Crippen Method
mcvol	172.310	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
tb	531.27	K	Joback Method
tc	758.98	K	Joback Method
tf	246.79	K	Joback Method
vc	0.628	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.80	J/mol×K	531.27	Joback Method
cpg	463.72	J/mol×K	569.22	Joback Method
cpg	489.03	J/mol×K	607.17	Joback Method
cpg	512.76	J/mol×K	645.12	Joback Method
cpg	534.97	J/mol×K	683.08	Joback Method
cpg	555.70	J/mol×K	721.03	Joback Method
cpg	574.99	J/mol×K	758.98	Joback Method

dvisc	0.0071989	Pa×s	246.79	Joback Method
dvisc	0.0026414	Pa×s	294.20	Joback Method
dvisc	0.0012802	Pa×s	341.62	Joback Method
dvisc	0.0007403	Pa×s	389.03	Joback Method
dvisc	0.0004821	Pa×s	436.44	Joback Method
dvisc	0.0003416	Pa×s	483.86	Joback Method
dvisc	0.0002573	Pa×s	531.27	Joback Method

Sources

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=C50991098&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chl:	Standard liquid enthalpy of combustion
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/64-733-7/1-1-Bicyclohexyl-2-methyl-trans.pdf>

Generated by Cheméo on 2025-12-05 07:34:38.20335709 +0000 UTC m=+4668275.733397744.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.