

(2-Methylbutyl)cyclohexane

Inchi:	InChI=1S/C11H22/c1-3-10(2)9-11-7-5-4-6-8-11/h10-11H,3-9H2,1-2H3
InchiKey:	DDQXBDLAGHZBMP-UHFFFAOYSA-N
Formula:	C11H22
SMILES:	CCC(C)CC1CCCCC1
Mol. weight [g/mol]:	154.29
CAS:	54105-77-0

Physical Properties

Property code	Value	Unit	Source
gf	63.75	kJ/mol	Joback Method
hf	-221.33	kJ/mol	Joback Method
hfus	12.56	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	4.003		Crippen Method
mcvol	154.990	ml/mol	McGowan Method
pc	2354.20	kPa	Joback Method
tb	470.19	K	Joback Method
tc	669.19	K	Joback Method
tf	206.11	K	Joback Method
vc	0.579	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.68	J/molxK	470.19	Joback Method
cpg	367.48	J/molxK	503.36	Joback Method
cpg	387.26	J/molxK	536.52	Joback Method
cpg	406.04	J/molxK	569.69	Joback Method
cpg	423.85	J/molxK	602.85	Joback Method
cpg	440.74	J/molxK	636.02	Joback Method
cpg	456.71	J/molxK	669.19	Joback Method
dvisc	0.0145054	Paxs	206.11	Joback Method
dvisc	0.0040021	Paxs	250.12	Joback Method

dvisc	0.0016233	Paxs	294.14	Joback Method
dvisc	0.0008328	Paxs	338.15	Joback Method
dvisc	0.0004983	Paxs	382.16	Joback Method
dvisc	0.0003315	Paxs	426.18	Joback Method
dvisc	0.0002380	Paxs	470.19	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=C54105770&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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