

Trans-3,5-dimethylcyclohexene

Other names:	3,5-Dimethyl-1-cyclohexene, trans
Inchi:	InChI=1S/C8H14/c1-7-4-3-5-8(2)6-7/h3-4,7-8H,5-6H2,1-2H3/t7-,8-/m0/s1
InchiKey:	YACYBRMPSZPZDF-HTQZYQBOSA-N
Formula:	C8H14
SMILES:	C[C@H]1CC=C[C@H](C)C1
Mol. weight [g/mol]:	110.20

Physical Properties

Property code	Value	Unit	Source
af	0.1967		Cheméo Relay (1.0)
hf	-81.21	kJ/mol	Cheméo Relay (1.0)
hfus	10.60	kJ/mol	Joback Method
hvap	35.67	kJ/mol	Cheméo Relay (1.0)
logp	2.609		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
tb	383.19	K	Cheméo Relay (1.0)
tc	557.39	K	Cheméo Relay (1.0)
tf	173.84	K	Cheméo Relay (1.0)
vc	0.410	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.92	J/mol×K	396.48	Joback Method
cpg	287.70	J/mol×K	598.94	Joback Method
cpg	274.86	J/mol×K	565.20	Joback Method
cpg	261.33	J/mol×K	531.46	Joback Method
cpg	247.09	J/mol×K	497.71	Joback Method
cpg	232.12	J/mol×K	463.97	Joback Method
cpg	216.40	J/mol×K	430.22	Joback Method
dvisc	0.0005394	Pa×s	290.15	Joback Method
dvisc	0.0002471	Pa×s	396.48	Joback Method
dvisc	0.0003046	Pa×s	361.04	Joback Method

dvisc	0.0003929	Pa×s	325.59	Joback Method
dvisc	0.0029050	Pa×s	183.82	Joback Method
dvisc	0.0008088	Pa×s	254.71	Joback Method
dvisc	0.0013823	Pa×s	219.26	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C56021637&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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/29-991-0/Trans-3-5-dimethylcyclohexene.pdf>

Generated by Cheméo on 2026-07-21 12:39:50.708759839 +0000 UTC m=+148686.550645213.

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