Cubenene

Inchi: InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h9-10,13,15H,5-8H2,1-4
InchiKey: FUCYIEXQVQJBKY-CFMCSPIPSA-N
Formula: C15H24
SMILES: CC1=CC2C(=C(C)CCC2C(C)C)CC1
Mol. weight [g/mol]: 204.35

Physical Properties

Property code	Value	Unit	Source
hfus	20.23	kJ/mol	Joback Method
logp	4.725		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
rinpol	1509.00		NIST Webbook
rinpol	1522.00		NIST Webbook
rinpol	1527.00		NIST Webbook
rinpol	1520.00		NIST Webbook
rinpol	1511.00		NIST Webbook
rinpol	1522.00		NIST Webbook
rinpol	1527.00		NIST Webbook
rinpol	1526.00		NIST Webbook
rinpol	1531.00		NIST Webbook
ripol	1761.00		NIST Webbook
ripol	1754.00		NIST Webbook
ripol	1798.00		NIST Webbook
ripol	1754.00		NIST Webbook
ripol	1754.00		NIST Webbook
ripol	1761.00		NIST Webbook
ripol	1754.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.23	J/mol×K	585.98	Joback Method
cpg	525.21	J/mol×K	622.06	Joback Method
cpg	545.92	J/mol×K	658.13	Joback Method

cpg	565.40	J/mol×K	694.21	Joback Method
cpg	583.72	J/mol×K	730.28	Joback Method
cpg	600.91	J/mol×K	766.36	Joback Method
cpg	617.03	J/mol×K	802.43	Joback Method
dvisc	0.0020981	Pa×s	304.69	Joback Method
dvisc	0.0012209	Pa×s	351.57	Joback Method
dvisc	0.0008070	Pa×s	398.45	Joback Method
dvisc	0.0005820	Pa×s	445.34	Joback Method
dvisc	0.0004467	Pa×s	492.22	Joback Method
dvisc	0.0003590	Pa×s	539.10	Joback Method
dvisc	0.0002988	Pa×s	585.98	Joback Method

Sources

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):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R204723&Units=SI

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

Legend

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

hfus: Enthalpy of fusion at standard conditions

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

rinpol: Non-polar retention indices

ripol: Polar retention indices