CYCLOOCTENE, 1,2-DIMETHYL-

Other names: 1,2-dimethylcyclooctene
Inchi: InChI=1S/C10H18/c1-9-7-5-3-4-6-8-10(9)2/h3-8H2,1-2H3/b10-9-
InchiKey: SFGYZTPBAOYZTF-KTKRTIGZSA-N
Formula: C10H18
SMILES: C/C1=C(\C)CCCCCC1
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
hf	-86.26	kJ/mol	Cheméo Relay (1.0)
hfus	8.66	kJ/mol	Joback Method
ie	8.35	eV	Cheméo Relay (1.0)
logp	3.677		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
tb	456.27	K	Cheméo Relay (1.0)
tf	242.56	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.36	J/mol×K	470.08	Joback Method
cpg	306.62	J/mol×K	506.43	Joback Method
cpg	324.94	J/mol×K	542.78	Joback Method
cpg	342.33	J/mol×K	579.13	Joback Method
cpg	358.80	J/mol×K	615.48	Joback Method
cpg	374.37	J/mol×K	651.84	Joback Method
cpg	389.04	J/mol×K	688.19	Joback Method
dvisc	0.0089243	Pa×s	232.84	Joback Method
dvisc	0.0028119	Pa×s	272.38	Joback Method
dvisc	0.0011874	Pa×s	311.92	Joback Method
dvisc	0.0006087	Pa×s	351.46	Joback Method
dvisc	0.0003572	Pa×s	391.00	Joback Method
dvisc	0.0002312	Pa×s	430.54	Joback Method
dvisc	0.0001610	Pa×s	470.08	Joback Method

Sources

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):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54299966&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point