1,3-CYCLOPENTADIENE, 5-(1,1-DIMETHYLETHYL)-

Other names: 5-tert-Butyl-1,3-cyclopentadiene
Inchi: InChI=1S/C9H14/c1-9(2,3)8-6-4-5-7-8/h4-8H,1-3H3
InchiKey: ZATNUISQHWOHHK-UHFFFAOYSA-N
Formula: C9H14
SMILES: CC(C)(C)C1C=CC=C1
Mol. weight [g/mol]: 122.21

Physical Properties

Property code	Value	Unit	Source
hfus	8.03	kJ/mol	Joback Method
logp	2.775		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
rinpol	788.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.51	J/mol×K	415.69	Joback Method
cpg	247.38	J/mol×K	450.45	Joback Method
cpg	263.17	J/mol×K	485.22	Joback Method
cpg	277.92	J/mol×K	519.98	Joback Method
cpg	291.71	J/mol×K	554.75	Joback Method
cpg	304.57	J/mol×K	589.51	Joback Method
cpg	316.56	J/mol×K	624.28	Joback Method
dvisc	0.0046178	Pa×s	206.03	Joback Method
dvisc	0.0021026	Pa×s	240.97	Joback Method
dvisc	0.0011685	Pa×s	275.92	Joback Method
dvisc	0.0007411	Pa×s	310.86	Joback Method
dvisc	0.0005153	Pa×s	345.80	Joback Method
dvisc	0.0003830	Pa×s	380.75	Joback Method
dvisc	0.0002993	Pa×s	415.69	Joback Method

Sources

Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C35059406&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

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