

1,2,3-Trimethylcyclopentene

Inchi:	InChI=1S/C8H14/c1-6-4-5-7(2)8(6)3/h6H,4-5H2,1-3H3
InchiKey:	YNEQKUWRFVQFPF-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CC1=C(C)C(C)CC1
Mol. weight [g/mol]:	110.20
CAS:	473-91-6

Physical Properties

Property code	Value	Unit	Source
chl	-5031.30	kJ/mol	NIST Webbook
hfus	10.85	kJ/mol	Joback Method
logp	2.753		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
tb	395.10 ± 0.40	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	205.03	J/mol×K	406.84	Joback Method
cpg	281.10	J/mol×K	604.64	Joback Method
cpg	269.88	J/mol×K	571.67	Joback Method
cpg	258.10	J/mol×K	538.71	Joback Method
cpg	245.74	J/mol×K	505.74	Joback Method
cpg	232.79	J/mol×K	472.77	Joback Method
cpg	219.22	J/mol×K	439.81	Joback Method
dvisc	0.0004586	Pa×s	311.73	Joback Method
dvisc	0.0002562	Pa×s	406.84	Joback Method
dvisc	0.0003011	Pa×s	375.14	Joback Method
dvisc	0.0003644	Pa×s	343.43	Joback Method
dvisc	0.0013688	Pa×s	216.62	Joback Method
dvisc	0.0006080	Pa×s	280.03	Joback Method
dvisc	0.0008662	Pa×s	248.32	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45798e+01
Coeff. B	-3.42884e+03
Coeff. C	-5.08900e+01
Temperature range (K), min.	290.80
Temperature range (K), max.	420.84

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C473916&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):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

chl:	Standard liquid enthalpy of combustion
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
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature

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