

2,2,4-trimethyl-3-hexene

Inchi:	InChI=1S/C9H18/c1-6-8(2)7-9(3,4)5/h7H,6H2,1-5H3
InchiKey:	DPFRBPJIKDMNCN-BQYQJAHWSA-N
Formula:	C9H18
SMILES:	CCC(C)=CC(C)(C)C
Mol. weight [g/mol]:	126.24
CAS:	102877-01-0

Physical Properties

Property code	Value	Unit	Source
af	0.2907		Cheméo Relay (1.0)
gf	99.41	kJ/mol	Joback Method
hf	-126.33	kJ/mol	Cheméo Relay (1.0)
hfus	10.54	kJ/mol	Joback Method
hvap	38.31	kJ/mol	Cheméo Relay (1.0)
ie	8.49	eV	Cheméo Relay (1.0)
logp	3.389		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
tb	401.00 ± 3.00	K	NIST Webbook
tb	403.00 ± 5.00	K	NIST Webbook
tb	405.00 ± 5.00	K	NIST Webbook
tb	387.00 ± 3.00	K	NIST Webbook
tc	557.85	K	Cheméo Relay (1.0)
tf	162.97	K	Cheméo Relay (1.0)
vc	0.490	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.53	J/mol×K	406.13	Joback Method
cpg	275.34	J/mol×K	437.13	Joback Method
cpg	290.31	J/mol×K	468.12	Joback Method
cpg	304.47	J/mol×K	499.12	Joback Method
cpg	317.87	J/mol×K	530.11	Joback Method

cpg	330.54	J/mol×K	561.11	Joback Method
cpg	342.52	J/mol×K	592.11	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C102877010&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

af:	Acentric Factor
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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

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