4-Octene, 2,3,6-trimethyl-

Inchi: InChI=1S/C11H22/c1-6-10(4)7-8-11(5)9(2)3/h7-11H,6H2,1-5H3/b8-7+
InchiKey: BPHPRVXZLWQTOR-BQYQJAHWSA-N
Formula: C11H22
SMILES: CCC(C)C=CC(C)C(C)C
Mol. weight [g/mol]: 154.29
CAS: 63830-65-9

Physical Properties

Property code	Value	Unit	Source
gf	114.64	kJ/mol	Joback Method
hf	-168.99	kJ/mol	Joback Method
hfus	13.88	kJ/mol	Joback Method
hvap	38.87	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.881		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2069.88	kPa	Joback Method
tb	453.92	K	Joback Method
tc	634.30	K	Joback Method
tf	163.65	K	Joback Method
vc	0.614	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.74	J/mol×K	453.92	Joback Method
cpg	361.86	J/mol×K	483.98	Joback Method
cpg	378.20	J/mol×K	514.05	Joback Method
cpg	393.80	J/mol×K	544.11	Joback Method
cpg	408.68	J/mol×K	574.18	Joback Method
cpg	422.87	J/mol×K	604.24	Joback Method
cpg	436.39	J/mol×K	634.30	Joback Method
dvisc	0.0447839	Pa×s	163.65	Joback Method
dvisc	0.0060487	Pa×s	212.03	Joback Method

dvisc	0.0017189	Pa×s	260.41	Joback Method
dvisc	0.0007246	Pa×s	308.78	Joback Method
dvisc	0.0003859	Pa×s	357.16	Joback Method
dvisc	0.0002389	Pa×s	405.54	Joback Method
dvisc	0.0001638	Pa×s	453.92	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C63830659&Units=SI
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
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
log10ws:	Log10 of Water solubility in mol/l
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