2-OCTENE, 2-METHYL-6-METHYLENE-

Other names: 2-Methyl 6-methylene 2-octene
Inchi: InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h7H,4-6,8H2,1-3H3
InchiKey: URHLAZIFTACBJA-UHFFFAOYSA-N
Formula: C10H18
SMILES: C=C(CC)CCC=C(C)C
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
af	0.3256		Cheméo Relay (1.0)
hf	-72.45	kJ/mol	Cheméo Relay (1.0)
hfus	17.96	kJ/mol	Joback Method
hvap	46.91	kJ/mol	Cheméo Relay (1.0)
ie	8.43	eV	Cheméo Relay (1.0)
log10ws	-4.45		Cheméo Relay (1.0)
logp	3.699		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	435.02	K	Cheméo Relay (1.0)
tc	600.96	K	Cheméo Relay (1.0)
tf	180.68	K	Cheméo Relay (1.0)
vc	0.523	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.95	J/mol×K	428.80	Joback Method
cpg	298.89	J/mol×K	458.85	Joback Method
cpg	313.14	J/mol×K	488.90	Joback Method
cpg	326.70	J/mol×K	518.96	Joback Method
cpg	339.63	J/mol×K	549.01	Joback Method
cpg	351.93	J/mol×K	579.06	Joback Method
cpg	363.65	J/mol×K	609.11	Joback Method

Sources

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=C10054098&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

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