1-Methyl-trans-2-(trans-2,3-methylene)-4-pentenyl

Inchi: InChI=1S/C10H16/c1-3-8-5-10(8)6-9-4-7(9)2/h3,7-10H,1,4-6H2,2H3/t7-,8+,9+,10-/m1/s1
InchiKey: KOIWKAVKZYGRKD-XFWSIPNHSA-N
Formula: C10H16
SMILES: C=CC1CC1CC1CC1C
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	227.24	kJ/mol	Joback Method
hf	-19.38	kJ/mol	Joback Method
hfus	18.79	kJ/mol	Joback Method
hvap	36.39	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.855		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinpol	939.90		NIST Webbook
rinpol	938.80		NIST Webbook
tb	429.02	K	Joback Method
tc	622.03	K	Joback Method
tf	228.10	K	Joback Method
vc	0.488	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.06	J/mol×K	429.02	Joback Method
cpg	351.02	J/mol×K	589.86	Joback Method
cpg	336.69	J/mol×K	557.69	Joback Method
cpg	321.49	J/mol×K	525.52	Joback Method
cpg	305.35	J/mol×K	493.36	Joback Method
cpg	288.22	J/mol×K	461.19	Joback Method
cpg	364.52	J/mol×K	622.03	Joback Method
dvisc	0.0006289	Pa×s	429.02	Joback Method

dvisc	0.0005881	Pa×s	395.53	Joback Method
dvisc	0.0005431	Pa×s	362.05	Joback Method
dvisc	0.0004935	Pa×s	328.56	Joback Method
dvisc	0.0004388	Pa×s	295.07	Joback Method
dvisc	0.0003786	Pa×s	261.59	Joback Method
dvisc	0.0003128	Pa×s	228.10	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R137554&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume