2-Decene, 2-methyl-

Inchi: InChI=1S/C11H22/c1-4-5-6-7-8-9-10-11(2)3/h10H,4-9H2,1-3H3
InchiKey: FAVBVYLIENPQLG-UHFFFAOYSA-N
Formula: C11H22
SMILES: CCCCCCCC=C(C)C
Mol. weight [g/mol]: 154.29
CAS: 23381-92-2

Physical Properties

Property code	Value	Unit	Source
gf	113.41	kJ/mol	Joback Method
hf	-162.94	kJ/mol	Joback Method
hfus	23.14	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.313		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2034.55	kPa	Joback Method
tb	465.20 ± 2.00	K	NIST Webbook
tc	627.34	K	Joback Method
tf	194.69	K	Joback Method
vc	0.632	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.50	J/mol×K	455.12	Joback Method
cpg	360.58	J/mol×K	483.82	Joback Method
cpg	375.97	J/mol×K	512.53	Joback Method
cpg	390.70	J/mol×K	541.23	Joback Method
cpg	404.79	J/mol×K	569.93	Joback Method
cpg	418.28	J/mol×K	598.63	Joback Method
cpg	431.17	J/mol×K	627.34	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=C23381922&Units=SI

Legend

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
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