2-Undecene, 2,5-dimethyl-

Other names: 2,5-Dimethyl-2-undecene
Inchi: InChI=1S/C13H26/c1-5-6-7-8-9-13(4)11-10-12(2)3/h10,13H,5-9,11H2,1-4H3
InchiKey: VIOGPKWXSDMDFJ-UHFFFAOYSA-N
Formula: C13H26
SMILES: CCCCCCC(C)CC=C(C)C
Mol. weight [g/mol]: 182.35
CAS: 49622-16-4

Physical Properties

Property code	Value	Unit	Source
gf	127.81	kJ/mol	Joback Method
hf	-209.50	kJ/mol	Joback Method
hfus	24.80	kJ/mol	Joback Method
hvap	44.18	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	4.949		Crippen Method
mcvol	189.730	ml/mol	McGowan Method
pc	1734.67	kPa	Joback Method
tb	500.44	K	Joback Method
tc	673.55	K	Joback Method
tf	202.23	K	Joback Method
vc	0.739	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.99	J/mol×K	500.44	Joback Method
cpg	456.93	J/mol×K	529.29	Joback Method
cpg	474.09	J/mol×K	558.14	Joback Method
cpg	490.51	J/mol×K	587.00	Joback Method
cpg	506.20	J/mol×K	615.85	Joback Method
cpg	521.19	J/mol×K	644.70	Joback Method
cpg	535.52	J/mol×K	673.55	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C49622164&Units=SI
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

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