4-Undecene, 5-methyl-

Other names: 5-Methyl-4-undecene
Inchi: InChI=1S/C12H24/c1-4-6-8-9-11-12(3)10-7-5-2/h10H,4-9,11H2,1-3H3/b12-10+
InchiKey: BVMMHBZCLRORPY-ZRDIBKRKSA-N
Formula: C12H24
SMILES: CCCC=C(C)CCCCCC
Mol. weight [g/mol]: 168.32
CAS: 20634-43-9

Physical Properties

Property code	Value	Unit	Source
gf	121.83	kJ/mol	Joback Method
hf	-183.58	kJ/mol	Joback Method
hfus	25.73	kJ/mol	Joback Method
hvap	42.34	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.703		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
tb	478.00	K	Joback Method
tc	648.97	K	Joback Method
tf	205.96	K	Joback Method
vc	0.689	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.74	J/mol×K	478.00	Joback Method
cpg	407.59	J/mol×K	506.50	Joback Method
cpg	423.72	J/mol×K	534.99	Joback Method
cpg	439.16	J/mol×K	563.49	Joback Method
cpg	453.94	J/mol×K	591.98	Joback Method
cpg	468.08	J/mol×K	620.48	Joback Method
cpg	481.60	J/mol×K	648.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20634439&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

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