

6-Tridecene, 7-methyl-

Other names:	7-Methyl-6-tridecene
Inchi:	InChI=1S/C14H28/c1-4-6-8-10-12-14(3)13-11-9-7-5-2/h12H,4-11,13H2,1-3H3/b14-12+
InchiKey:	OWBREJMG00UEDR-WYMLVPIESA-N
Formula:	C14H28
SMILES:	CCCCC=C(C)CCCCC
Mol. weight [g/mol]:	196.37
CAS:	24949-42-6

Physical Properties

Property code	Value	Unit	Source
gf	138.67	kJ/mol	Joback Method
hf	-224.86	kJ/mol	Joback Method
hfus	30.91	kJ/mol	Joback Method
hvap	46.80	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.483		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1593.62	kPa	Joback Method
tb	523.76	K	Joback Method
tc	692.31	K	Joback Method
tf	228.50	K	Joback Method
vc	0.800	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.72	J/molxK	523.76	Joback Method
cpg	506.84	J/molxK	551.85	Joback Method
cpg	524.20	J/molxK	579.94	Joback Method
cpg	540.82	J/molxK	608.04	Joback Method
cpg	556.72	J/molxK	636.13	Joback Method
cpg	571.95	J/molxK	664.22	Joback Method
cpg	586.51	J/molxK	692.31	Joback Method

Sources

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=C24949426&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

Latest version available from:

<https://www.chemeo.com/cid/74-337-6/6-Tridecene-7-methyl.pdf>

Generated by Cheméo on 2024-04-18 03:49:24.312688991 +0000 UTC m=+15701413.233266317.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.