

3-Tetradecene, (E)-

Other names:	(3E)-3-Tetradecene (E)-3-Tetradecene trans-3-Tetradecene
Inchi:	InChI=1S/C14H28/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h5,7H,3-4,6,8-14H2,1-2H3/b7-5+
InchiKey:	QKTFNIWYLYTNIS-FNORWQNLSA-N
Formula:	C14H28
SMILES:	CCC=CCCCCCCCCCC
Mol. weight [g/mol]:	196.37
CAS:	41446-68-8

Physical Properties

Property code	Value	Unit	Source
gf	147.22	kJ/mol	Joback Method
hf	-215.07	kJ/mol	Joback Method
hfus	32.22	kJ/mol	Joback Method
hvap	46.72	kJ/mol	Joback Method
log10ws	-5.54		Crippen Method
logp	5.483		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
ripol	1392.00		NIST Webbook
ripol	1385.20		NIST Webbook
ripol	1385.00		NIST Webbook
ripol	1385.00		NIST Webbook
ripol	1385.00		NIST Webbook
ripol	1393.00		NIST Webbook
ripol	1385.00		NIST Webbook
ripol	1393.00		NIST Webbook
ripol	1445.00		NIST Webbook
ripol	1438.40		NIST Webbook
ripol	1439.00		NIST Webbook
ripol	1430.00		NIST Webbook
ripol	1437.00		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1430.00		NIST Webbook
ripol	1437.00		NIST Webbook

ripol	1438.00		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1432.00		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1431.80		NIST Webbook
ripol	1445.00		NIST Webbook
ripol	1445.00		NIST Webbook
ripol	1446.00		NIST Webbook
ripol	1446.00		NIST Webbook
ripol	1440.00		NIST Webbook
ripol	1440.00		NIST Webbook
ripol	1441.00		NIST Webbook
ripol	1441.00		NIST Webbook
ripol	1441.00		NIST Webbook
ripol	1428.30		NIST Webbook
ripol	1437.80		NIST Webbook
ripol	1430.10		NIST Webbook
ripol	1438.00		NIST Webbook
ripol	1425.90		NIST Webbook
ripol	1430.10		NIST Webbook
ripol	1436.30		NIST Webbook
ripol	1437.50		NIST Webbook
ripol	1428.30		NIST Webbook
ripol	1430.30		NIST Webbook
ripol	1436.80		NIST Webbook
ripol	1437.90		NIST Webbook
ripol	1446.00		NIST Webbook
ripol	1445.00		NIST Webbook
ripol	1446.00		NIST Webbook
ripol	1445.00		NIST Webbook
tb	523.88	K	Joback Method
tc	689.82	K	Joback Method
tf	242.46	K	Joback Method
vc	0.799	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.90	J/mol×K	523.88	Joback Method
cpg	571.08	J/mol×K	662.16	Joback Method

cpg	556.03	J/molxK	634.51	Joback Method
cpg	540.31	J/molxK	606.85	Joback Method
cpg	523.90	J/molxK	579.19	Joback Method
cpg	506.77	J/molxK	551.54	Joback Method
cpg	585.50	J/molxK	689.82	Joback Method
dvisc	0.0001553	Paxs	523.88	Joback Method
dvisc	0.0002098	Paxs	476.98	Joback Method
dvisc	0.0003029	Paxs	430.07	Joback Method
dvisc	0.0004782	Paxs	383.17	Joback Method
dvisc	0.0008577	Paxs	336.27	Joback Method
dvisc	0.0018593	Paxs	289.36	Joback Method
dvisc	0.0054364	Paxs	242.46	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C41446688&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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

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