

7-Nonacosene

Other names:	nonacos-7-ene
Inchi:	InChI=1S/C29H58/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-28-26-24-22-20-18-16-14-
InchiKey:	MHIGOUJRWGZUKK-FYWRMAATSA-N
Formula:	C29H58
SMILES:	CCCCCCC=CCCCCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	406.77

Physical Properties

Property code	Value	Unit	Source
gf	273.52	kJ/mol	Joback Method
hf	-524.67	kJ/mol	Joback Method
hfus	71.07	kJ/mol	Joback Method
hvap	80.11	kJ/mol	Joback Method
log10ws	-11.82		Crippen Method
logp	11.335		Crippen Method
mcvol	415.170	ml/mol	McGowan Method
pc	640.92	kPa	Joback Method
rinpol	2882.00		NIST Webbook
rinpol	2879.52		NIST Webbook
rinpol	2882.00		NIST Webbook
rinpol	2877.00		NIST Webbook
rinpol	2879.52		NIST Webbook
rinpol	2877.00		NIST Webbook
tb	867.08	K	Joback Method
tc	1064.07	K	Joback Method
tf	411.51	K	Joback Method
vc	1.639	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1389.20	J/molxK	867.08	Joback Method
cpg	1414.75	J/molxK	899.91	Joback Method
cpg	1438.98	J/molxK	932.74	Joback Method

cpg	1461.99	J/molxK	965.58	Joback Method
cpg	1483.85	J/molxK	998.41	Joback Method
cpg	1504.64	J/molxK	1031.24	Joback Method
cpg	1524.45	J/molxK	1064.07	Joback Method
dvisc	0.0011611	Paxs	411.51	Joback Method
dvisc	0.0003705	Paxs	487.44	Joback Method
dvisc	0.0001609	Paxs	563.37	Joback Method
dvisc	0.0000852	Paxs	639.29	Joback Method
dvisc	0.0000516	Paxs	715.22	Joback Method
dvisc	0.0000344	Paxs	791.15	Joback Method
dvisc	0.0000246	Paxs	867.08	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R282065&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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