

(E)-2-Nonene, 4-methyl

Inchi:	InChI=1S/C10H20/c1-4-6-7-9-10(3)8-5-2/h5,8,10H,4,6-7,9H2,1-3H3/b8-5+
InchiKey:	YWPFKZMYKGXMAP-VMPITWQZSA-N
Formula:	C10H20
SMILES:	CC=CC(C)CCCC
Mol. weight [g/mol]:	140.27

Physical Properties

Property code	Value	Unit	Source
gf	111.10	kJ/mol	Joback Method
hf	-137.79	kJ/mol	Joback Method
hfus	18.34	kJ/mol	Joback Method
hvap	37.42	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.779		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2229.20	kPa	Joback Method
rinpol	954.00		NIST Webbook
rinpol	958.00		NIST Webbook
rinpol	954.00		NIST Webbook
rinpol	951.00		NIST Webbook
tb	431.92	K	Joback Method
tc	605.89	K	Joback Method
tf	182.38	K	Joback Method
vc	0.570	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.30	J/molxK	431.92	Joback Method
cpg	315.67	J/molxK	460.92	Joback Method
cpg	330.38	J/molxK	489.91	Joback Method
cpg	344.46	J/molxK	518.91	Joback Method
cpg	357.91	J/molxK	547.90	Joback Method
cpg	370.77	J/molxK	576.90	Joback Method

cpg	383.07	J/mol×K	605.89	Joback Method
dvisc	0.0103960	Paxs	182.38	Joback Method
dvisc	0.0028643	Paxs	223.97	Joback Method
dvisc	0.0011817	Paxs	265.56	Joback Method
dvisc	0.0006197	Paxs	307.15	Joback Method
dvisc	0.0003790	Paxs	348.74	Joback Method
dvisc	0.0002574	Paxs	390.33	Joback Method
dvisc	0.0001884	Paxs	431.92	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R42639&Units=SI

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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