

4-Ethyl-4-methyloctane

Inchi:	InChI=1S/C11H24/c1-5-8-10-11(4,7-3)9-6-2/h5-10H2,1-4H3
InchiKey:	IXZULXYHNRHENR-UHFFFAOYSA-N
Formula:	C11H24
SMILES:	CCCCC(C)(CC)CCC
Mol. weight [g/mol]:	156.31

Physical Properties

Property code	Value	Unit	Source
gf	44.58	kJ/mol	Joback Method
hf	-279.12	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	4.393		Crippen Method
mcvol	165.850	ml/mol	McGowan Method
pc	1966.56	kPa	Joback Method
rinpol	1037.00		NIST Webbook
tb	447.85	K	Joback Method
tc	619.29	K	Joback Method
tf	216.15	K	Joback Method
vc	0.640	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.00	J/molxK	447.85	Joback Method
cpg	379.36	J/molxK	476.42	Joback Method
cpg	395.95	J/molxK	505.00	Joback Method
cpg	411.80	J/molxK	533.57	Joback Method
cpg	426.92	J/molxK	562.14	Joback Method
cpg	441.36	J/molxK	590.71	Joback Method
cpg	455.13	J/molxK	619.29	Joback Method
dvisc	0.0103350	Paxs	216.15	Joback Method
dvisc	0.0033968	Paxs	254.77	Joback Method

dvisc	0.0014964	Paxs	293.38	Joback Method
dvisc	0.0007977	Paxs	332.00	Joback Method
dvisc	0.0004848	Paxs	370.62	Joback Method
dvisc	0.0003237	Paxs	409.23	Joback Method
dvisc	0.0002317	Paxs	447.85	Joback Method

Sources

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=R522853&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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