

4,4-Dipropylheptane

Inchi:	InChI=1S/C13H28/c1-5-9-13(10-6-2,11-7-3)12-8-4/h5-12H2,1-4H3
InchiKey:	ULEPZYFBCDJENO-UHFFFAOYSA-N
Formula:	C13H28
SMILES:	CCCC(CCC)(CCC)CCC
Mol. weight [g/mol]:	184.36
CAS:	17312-72-0

Physical Properties

Property code	Value	Unit	Source
gf	61.42	kJ/mol	Joback Method
hf	-320.40	kJ/mol	Joback Method
hfus	22.01	kJ/mol	Joback Method
hvap	43.24	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	5.173		Crippen Method
mcvol	194.030	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
tb	493.61	K	Joback Method
tc	662.67	K	Joback Method
tf	247.00 ± 2.00	K	NIST Webbook
tf	246.70 ± 3.00	K	NIST Webbook
tf	246.70 ± 2.00	K	NIST Webbook
vc	0.752	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.75	J/mol×K	493.61	Joback Method
cpg	476.43	J/mol×K	521.79	Joback Method
cpg	494.29	J/mol×K	549.96	Joback Method
cpg	511.35	J/mol×K	578.14	Joback Method
cpg	527.65	J/mol×K	606.32	Joback Method
cpg	543.21	J/mol×K	634.50	Joback Method
cpg	558.07	J/mol×K	662.67	Joback Method

dvisc	0.0090102	Pa×s	238.69	Joback Method
dvisc	0.0029290	Pa×s	281.18	Joback Method
dvisc	0.0012789	Pa×s	323.66	Joback Method
dvisc	0.0006768	Pa×s	366.15	Joback Method
dvisc	0.0004088	Pa×s	408.64	Joback Method
dvisc	0.0002716	Pa×s	451.12	Joback Method
dvisc	0.0001935	Pa×s	493.61	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17312720&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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