

Heptacosane, 8-methyl

Inchi: InChI=1S/C28H58/c1-4-6-8-10-11-12-13-14-15-16-17-18-19-20-21-23-25-27-28(3)26-24-
InchiKey: QYLKYROZQUYTGJ-UHFFFAOYSA-N
Formula: C28H58
SMILES: CCCCCCCCCCCCCCCCCCCC(C)CCCCCCC
Mol. weight [g/mol]: 394.76

Physical Properties

Property code	Value	Unit	Source
gf	182.44	kJ/mol	Joback Method
hf	-626.53	kJ/mol	Joback Method
hfus	64.75	kJ/mol	Joback Method
hvap	77.53	kJ/mol	Joback Method
log10ws	-11.30		Crippen Method
logp	11.025		Crippen Method
mcvol	405.380	ml/mol	McGowan Method
pc	658.14	kPa	Joback Method
rinpol	2741.00		NIST Webbook
rinpol	2741.00		NIST Webbook
tb	839.60	K	Joback Method
tc	1029.02	K	Joback Method
tf	390.32	K	Joback Method
vc	1.597	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1348.34	J/mol×K	839.60	Joback Method
cpg	1373.75	J/mol×K	871.17	Joback Method
cpg	1397.85	J/mol×K	902.74	Joback Method
cpg	1420.68	J/mol×K	934.31	Joback Method
cpg	1442.31	J/mol×K	965.88	Joback Method
cpg	1462.81	J/mol×K	997.45	Joback Method
cpg	1482.23	J/mol×K	1029.02	Joback Method
dvisc	0.0017949	Pa×s	390.32	Joback Method

dvisc	0.0005242	Pa×s	465.20	Joback Method
dvisc	0.0002154	Pa×s	540.08	Joback Method
dvisc	0.0001099	Pa×s	614.96	Joback Method
dvisc	0.0000649	Pa×s	689.84	Joback Method
dvisc	0.0000425	Pa×s	764.72	Joback Method
dvisc	0.0000300	Pa×s	839.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R570773&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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