

12-Tritriacontene

Inchi:	InChI=1S/C30H60/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-30-28-26-24-22-20-18-16
InchiKey:	UXBBYDBWOJZQJD-WJTDDFOZSA-N
Formula:	C30H60
SMILES:	CCCCCCCCCCCC=CCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	420.80

Physical Properties

Property code	Value	Unit	Source
gf	281.94	kJ/mol	Joback Method
hf	-545.31	kJ/mol	Joback Method
hfus	73.66	kJ/mol	Joback Method
hvap	82.33	kJ/mol	Joback Method
log10ws	-12.23		Crippen Method
logp	11.725		Crippen Method
mcvol	429.260	ml/mol	McGowan Method
pc	610.87	kPa	Joback Method
rinpol	3278.00		NIST Webbook
rinpol	3278.00		NIST Webbook
tb	889.96	K	Joback Method
tc	1094.86	K	Joback Method
tf	422.78	K	Joback Method
vc	1.696	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1456.08	J/mol×K	889.96	Joback Method
cpg	1575.32	J/mol×K	1060.71	Joback Method
cpg	1553.90	J/mol×K	1026.56	Joback Method
cpg	1531.37	J/mol×K	992.41	Joback Method
cpg	1507.61	J/mol×K	958.26	Joback Method
cpg	1482.55	J/mol×K	924.11	Joback Method
cpg	1595.71	J/mol×K	1094.86	Joback Method
dvisc	0.0000212	Paxs	889.96	Joback Method

dvisc	0.0000297	Paxs	812.10	Joback Method
dvisc	0.0000446	Paxs	734.23	Joback Method
dvisc	0.0000737	Paxs	656.37	Joback Method
dvisc	0.0001395	Paxs	578.51	Joback Method
dvisc	0.0003220	Paxs	500.64	Joback Method
dvisc	0.0010116	Paxs	422.78	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R528044&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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