Propane, 2,2-bis(tert-butyloxy)-

Inchi: InChI=1S/C11H24O2/c1-9(2,3)12-11(7,8)13-10(4,5)6/h1-8H3
InchiKey: MJMULMSFDFSXNW-UHFFFAOYSA-N
Formula: C11H24O2
SMILES: CC(C)(C)OC(C)(C)OC(C)(C)C
Mol. weight [g/mol]: 188.31

Physical Properties

Property code	Value	Unit	Source
gf	-159.74	kJ/mol	Joback Method
hf	-561.06	kJ/mol	Joback Method
hfus	4.38	kJ/mol	Joback Method
hvap	41.01	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	3.353		Crippen Method
mcvol	177.590	ml/mol	McGowan Method
pc	1973.55	kPa	Joback Method
rinpol	1107.00		NIST Webbook
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tb	486.23	K	Joback Method
tc	678.19	K	Joback Method
tf	265.45	K	Joback Method
vc	0.654	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.29	J/mol×K	486.23	Joback Method
cpg	442.46	J/mol×K	518.22	Joback Method
cpg	460.57	J/mol×K	550.22	Joback Method
cpg	477.66	J/mol×K	582.21	Joback Method
cpg	493.78	J/mol×K	614.20	Joback Method
cpg	508.98	J/mol×K	646.20	Joback Method
cpg	523.29	J/mol×K	678.19	Joback Method
dvisc	0.0077725	Pa×s	265.45	Joback Method

dvisc	0.0026919	Pa×s	302.25	Joback Method
dvisc	0.0011736	Pa×s	339.04	Joback Method
dvisc	0.0006019	Pa×s	375.84	Joback Method
dvisc	0.0003478	Pa×s	412.64	Joback Method
dvisc	0.0002198	Pa×s	449.43	Joback Method
dvisc	0.0001489	Pa×s	486.23	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=U381761&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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