Propane, 2,2-bis(3,4-xylyl)-

Inchi: InChI=1S/C19H24/c1-13-7-9-17(11-15(13)3)19(5,6)18-10-8-14(2)16(4)12-18/h7-12H,1-6
InchiKey: BGTZYQSCNQIZER-UHFFFAOYSA-N
Formula: C19H24
SMILES: Cc1ccc(C(C)(C)c2ccc(C)c(C)c2)cc1C
Mol. weight [g/mol]: 252.39
CAS: 6970-01-0

Physical Properties

Property code	Value	Unit	Source
gf	298.24	kJ/mol	Joback Method
hf	-17.06	kJ/mol	Joback Method
hfus	24.08	kJ/mol	Joback Method
hvap	63.79	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	5.246		Crippen Method
mcvol	231.050	ml/mol	McGowan Method
pc	1706.12	kPa	Joback Method
tb	704.17	K	Joback Method
tc	937.43	K	Joback Method
tf	409.23	K	Joback Method
vc	0.873	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.49	J/mol×K	704.17	Joback Method
cpg	718.25	J/mol×K	898.56	Joback Method
cpg	703.65	J/mol×K	859.68	Joback Method
cpg	687.96	J/mol×K	820.80	Joback Method
cpg	671.09	J/mol×K	781.92	Joback Method
cpg	652.96	J/mol×K	743.05	Joback Method
cpg	731.84	J/mol×K	937.43	Joback Method
dvisc	0.0000922	Pa×s	704.17	Joback Method
dvisc	0.0001166	Pa×s	655.01	Joback Method

dvisc	0.0001532	Pa×s	605.86	Joback Method
dvisc	0.0002112	Pa×s	556.70	Joback Method
dvisc	0.0003097	Pa×s	507.54	Joback Method
dvisc	0.0004932	Pa×s	458.39	Joback Method
dvisc	0.0008782	Pa×s	409.23	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6970010&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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