Pyran, 2,2'-(tetramethyl-1,3-cyclobutylenedioxy)bis(tetral

Inchi: InChI=1S/C18H32O4/c1-17(2)15(21-13-9-5-7-11-19-13)18(3,4)16(17)22-14-10-6-8-12-20

InchiKey: ZJHUCVNWEWCREX-UHFFFAOYSA-N

Formula: C18H32O4

SMILES: CC1(C)C(OC2CCCCO2)C(C)(C)C1OC1CCCCO1

Mol. weight [g/mol]: 312.44

Physical Properties

Property code	Value	Unit	Source
gf	-218.12	kJ/mol	Joback Method
hf	-798.55	kJ/mol	Joback Method
hfus	31.03	kJ/mol	Joback Method
hvap	67.22	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.876		Crippen Method
mcvol	255.380	ml/mol	McGowan Method
pc	1676.91	kPa	Joback Method
tb	746.56	K	Joback Method
tc	980.70	K	Joback Method
tf	454.48	K	Joback Method
vc	0.929	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.18	J/mol×K	746.56	Joback Method
cpg	875.06	J/mol×K	785.58	Joback Method
cpg	900.88	J/mol×K	824.61	Joback Method
cpg	925.88	J/mol×K	863.63	Joback Method
cpg	950.31	J/mol×K	902.65	Joback Method
cpg	974.40	J/mol×K	941.68	Joback Method
cpg	998.40	J/mol×K	980.70	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=B6001765&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
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