

Exo-4-hydroxy-exo-endo-tetracyclo[6.2.1.13,602,7

Other names:	Exo-4-hydroxy-exo-endo-tetracyclo[6.2.1.1
Inchi:	InChI=1S/C12H18O/c13-10-5-8-4-9(10)12-7-2-1-6(3-7)11(8)12/h6-13H,1-5H2/t6-,7+,8+,9
InchiKey:	LXGJTVCALLQHGX-IGADDSOASA-N
Formula:	C12H18O
SMILES:	OC1CC2CC1C1C3CCC(C3)C21
Mol. weight [g/mol]:	178.27
CAS:	107133-43-7

Physical Properties

Property code	Value	Unit	Source
chs	-7000.30 ± 4.60	kJ/mol	NIST Webbook
gf	133.21	kJ/mol	Joback Method
hf	-218.00 ± 5.00	kJ/mol	NIST Webbook
hfs	-294.30 ± 4.60	kJ/mol	NIST Webbook
hfus	26.68	kJ/mol	Joback Method
hsub	76.30	kJ/mol	NIST Webbook
hsub	76.30 ± 2.00	kJ/mol	NIST Webbook
hsub	76.30 ± 2.00	kJ/mol	NIST Webbook
hvap	57.71	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.049		Crippen Method
mcvol	142.370	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
tb	579.09	K	Joback Method
tc	780.15	K	Joback Method
tf	344.86	K	Joback Method
vc	0.551	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.07	J/mol×K	579.09	Joback Method
cpg	445.44	J/mol×K	612.60	Joback Method
cpg	462.60	J/mol×K	646.11	Joback Method

cpg	478.65	J/mol×K	679.62	Joback Method
cpg	493.69	J/mol×K	713.13	Joback Method
cpg	507.83	J/mol×K	746.64	Joback Method
cpg	521.17	J/mol×K	780.15	Joback Method
dvisc	0.0050743	Pa×s	344.86	Joback Method
dvisc	0.0045720	Pa×s	383.90	Joback Method
dvisc	0.0041994	Pa×s	422.94	Joback Method
dvisc	0.0039131	Pa×s	461.98	Joback Method
dvisc	0.0036866	Pa×s	501.01	Joback Method
dvisc	0.0035032	Pa×s	540.05	Joback Method
dvisc	0.0033520	Pa×s	579.09	Joback Method
hsubt	74.30 ± 1.80	kJ/mol	338.00	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C107133437&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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

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