

«DELTA»7-Lithocholic acid, acetate-methyl ester

Inchi: InChI=1S/C27H42O4/c1-17(6-11-25(29)30-5)22-9-10-23-21-8-7-19-16-20(31-18(2)28)12

InchiKey: XLXMWIIYGVGNBF-FTMZEHMMSA-N

Formula: C27H42O4

SMILES: COC(=O)CCC(C)C1CCC2C3=CCC4CC(OC(C)=O)CCC4(C)C3CCC21C

Mol. weight [g/mol]: 430.62

Physical Properties

Property code	Value	Unit	Source
gf	-125.10	kJ/mol	Joback Method
hf	-819.32	kJ/mol	Joback Method
hfus	41.23	kJ/mol	Joback Method
hvap	91.86	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.086		Crippen Method
mcvol	358.430	ml/mol	McGowan Method
pc	1072.87	kPa	Joback Method
rinpol	3177.00		NIST Webbook
tb	1008.22	K	Joback Method
tc	1243.20	K	Joback Method
tf	625.89	K	Joback Method
vc	1.357	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1362.45	J/mol×K	1008.22	Joback Method
cpg	1393.49	J/mol×K	1047.38	Joback Method
cpg	1425.24	J/mol×K	1086.55	Joback Method
cpg	1458.04	J/mol×K	1125.71	Joback Method
cpg	1492.23	J/mol×K	1164.88	Joback Method
cpg	1528.14	J/mol×K	1204.04	Joback Method
cpg	1566.09	J/mol×K	1243.20	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=R182257&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
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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