

5-«alpha»-Androstan-7-«alpha»,17-«beta»-diol,

TEFA

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C23H30F6O4/c1-20-9-4-3-5-12(20)11-15(32-18(30)22(24,25)26)17-13-6-7-16(

OWCJLRGLNDSHFQ-XLBPANAUSA-N

C23H30F6O4

CC12CCCCC1CC(OC(=O)C(F)(F)F)C1C2CCC2(C)C(OC(=O)C(F)(F)F)CCC12

484.47

Physical Properties

Property code	Value	Unit	Source
gf	-1347.56	kJ/mol	Joback Method
hf	-1992.29	kJ/mol	Joback Method
hfus	38.28	kJ/mol	Joback Method
hvap	74.58	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.977		Crippen Method
mcvol	316.990	ml/mol	McGowan Method
pc	1139.03	kPa	Joback Method
rinpol	2158.00		NIST Webbook
rinpol	2154.00		NIST Webbook
tb	897.49	K	Joback Method
tc	1110.56	K	Joback Method
tf	586.67	K	Joback Method
vc	1.238	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1166.32	J/mol×K	897.49	Joback Method
cpg	1190.15	J/mol×K	933.00	Joback Method
cpg	1214.03	J/mol×K	968.51	Joback Method
cpg	1238.23	J/mol×K	1004.03	Joback Method
cpg	1263.04	J/mol×K	1039.54	Joback Method
cpg	1288.73	J/mol×K	1075.05	Joback Method
cpg	1315.58	J/mol×K	1110.56	Joback Method

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=R384899&Units=SI

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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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