

Testosterone Decanoate

Other names:

Test Decanoate
Androst-4-en-3-one, 17-[(1-oxodecyl)oxy]-, (17«beta»)-
17«beta»-hydroxyandrost-4-en-3-one decanoate

Inchi: InChI=1S/C29H46O3/c1-4-5-6-7-8-9-10-11-27(31)32-26-15-14-24-23-13-12-21-20-22(30)**InchiKey:** LBERVHLCXUMDOT-LANGJZDMSA-N**Formula:** C29H46O3**SMILES:** CCCCCCCCCC(=O)OC1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC12C**Mol. weight [g/mol]:** 442.67**CAS:** 5721-91-5

Physical Properties

Property code	Value	Unit	Source
gf	13.22	kJ/mol	Joback Method
hf	-727.88	kJ/mol	Joback Method
hfus	45.58	kJ/mol	Joback Method
hvap	92.10	kJ/mol	Joback Method
log10ws	-8.44		Crippen Method
logp	7.571		Crippen Method
mcvol	380.740	ml/mol	McGowan Method
pc	957.91	kPa	Joback Method
tb	1050.62	K	Joback Method
tc	1289.61	K	Joback Method
tf	663.73	K	Joback Method
vc	1.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1486.12	J/molxK	1050.62	Joback Method
cpg	1520.28	J/molxK	1090.45	Joback Method
cpg	1555.46	J/molxK	1130.28	Joback Method
cpg	1592.00	J/molxK	1170.11	Joback Method
cpg	1630.25	J/molxK	1209.95	Joback Method
cpg	1670.55	J/molxK	1249.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5721915&Units=SI
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

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

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