

Androstan-3-one, 17-(1-oxopropoxy)-, (5«alpha»,17«beta»)-

Other names:	5-«alpha»-Androstan-3-one, 17-«beta»-hydroxy-, propionate Androstanolone propionate Dhtp Dihydrotestosterone propionate Dihydrotestosterone 17-«beta»-propionate 5-«alpha»-Dihydrotestosterone propionate 17«beta»-Propanoyloxy-5«alpha»-androstan-3-one 17«beta»-hydroxy-5«alpha»-androstan-3-one propionate 5«alpha»,17«beta»-Dihydrotestosterone propanoate
Inchi:	InChI=1S/C22H34O3/c1-4-20(24)25-19-8-7-17-16-6-5-14-13-15(23)9-11-21(14,2)18(16)1
InchiKey:	XTAARPJDFFXHGH-XRZNGZATSA-N
Formula:	C22H34O3
SMILES:	CCC(=O)OC1CCC2C3CCC4CC(=O)CCC4(C)C3CCC12C
Mol. weight [g/mol]:	346.50
CAS:	855-22-1

Physical Properties

Property code	Value	Unit	Source
gf	-73.76	kJ/mol	Joback Method
hf	-650.05	kJ/mol	Joback Method
hfus	27.69	kJ/mol	Joback Method
hvap	75.25	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	4.920		Crippen Method
mcvol	286.410	ml/mol	McGowan Method
pc	1464.61	kPa	Joback Method
rinpol	2708.10		NIST Webbook
rinpol	2708.10		NIST Webbook
rinpol	2721.06		NIST Webbook
tb	881.65	K	Joback Method
tc	1123.30	K	Joback Method
tf	567.32	K	Joback Method
vc	1.079	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1041.52	J/mol×K	881.65	Joback Method
cpg	1069.44	J/mol×K	921.93	Joback Method
cpg	1097.22	J/mol×K	962.20	Joback Method
cpg	1125.19	J/mol×K	1002.48	Joback Method
cpg	1153.67	J/mol×K	1042.75	Joback Method
cpg	1182.99	J/mol×K	1083.03	Joback Method
cpg	1213.47	J/mol×K	1123.30	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=C855221&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/79-897-0/Androstan-3-one-17-1-oxopropoxy-5-alpha-17-beta.pdf>

Generated by Cheméo on 2025-12-05 09:28:04.060849759 +0000 UTC m=+4675081.590890423.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.