

5«alpha»-Androstane-3«beta»,17«beta»-diol, bis(pentafluoropropionate)

Inchi:	InChI=1S/C25H30F10O4/c1-20-9-7-13(38-18(36)22(26,27)24(30,31)32)11-12(20)3-4-14
InchiKey:	VGVRMALUWHWDMN-UHFFFAOYSA-N
Formula:	C25H30F10O4
SMILES:	CC12CCC(OC(=O)C(F)(F)C(F)(F)F)CC1CCC1C2CCC2(C)C(OC(=O)C(F)(F)C(F)(F)F)CC
Mol. weight [g/mol]:	584.49

Physical Properties

Property code	Value	Unit	Source
hfus	40.95	kJ/mol	Joback Method
logp	7.248		Crippen Method
mcvol	352.250	ml/mol	McGowan Method
rinpol	2371.60		NIST Webbook
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tf	385.62	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1323.80	J/mol×K	933.87	Joback Method
cpg	1348.14	J/mol×K	969.07	Joback Method
cpg	1372.89	J/mol×K	1004.27	Joback Method
cpg	1398.38	J/mol×K	1039.47	Joback Method
cpg	1424.91	J/mol×K	1074.67	Joback Method
cpg	1452.82	J/mol×K	1109.87	Joback Method
cpg	1482.43	J/mol×K	1145.07	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=U352244&Units=SI>

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
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

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