

# «alpha»-Estradiol, bis(trifluoroacetate)

<b>Inchi:</b>	InChI=1S/C22H22F6O4/c1-20-9-8-14-13-5-3-12(31-18(29)21(23,24)25)10-11(13)2-4-15(
<b>InchiKey:</b>	GBPADILCVOCPX-UHFFFAOYSA-N
<b>Formula:</b>	C22H22F6O4
<b>SMILES:</b>	CC12CCC3c4ccc(OC(=O)C(F)(F)F)cc4CCC3C1CCC2OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	464.40

## Physical Properties

Property code	Value	Unit	Source
gf	-1266.37	kJ/mol	Joback Method
hf	-1786.94	kJ/mol	Joback Method
hfus	41.27	kJ/mol	Joback Method
hvap	77.30	kJ/mol	Joback Method
log10ws	-6.80		Crippen Method
logp	5.484		Crippen Method
mvol	290.000	ml/mol	McGowan Method
pc	1322.31	kPa	Joback Method
rinpol	2318.10		NIST Webbook
rinpol	2318.10		NIST Webbook
tb	900.80	K	Joback Method
tc	1116.03	K	Joback Method
tf	604.06	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1004.36	J/molxK	900.80	Joback Method
cpg	1022.36	J/molxK	936.67	Joback Method
cpg	1040.07	J/molxK	972.54	Joback Method
cpg	1057.67	J/molxK	1008.42	Joback Method
cpg	1075.39	J/molxK	1044.29	Joback Method
cpg	1093.44	J/molxK	1080.16	Joback Method
cpg	1112.01	J/molxK	1116.03	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1549151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1549151&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/70-450-4/alpha-Estradiol-bis-trifluoroacetate.pdf>

Generated by Cheméo on 2024-04-23 14:42:55.334224131 +0000 UTC m=+16172624.254801447.

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