

# 3,4-Dihydroxyphenylacetic acid, propionyl, DTFMBz

<b>Inchi:</b>	InChI=1S/C23H20F6O6/c1-3-19(30)34-17-6-5-13(9-18(17)35-20(31)4-2)10-21(32)33-12-
<b>InchiKey:</b>	RBSZVXQBUCQJFA-UHFFFAOYSA-N
<b>Formula:</b>	C23H20F6O6
<b>SMILES:</b>	CCC(=O)Oc1ccc(CC(=O)OCc2cc(C(F)(F)F)cc(C(F)(F)F)c2)cc1OC(=O)CC
<b>Mol. weight [g/mol]:</b>	506.39

## Physical Properties

Property code	Value	Unit	Source
gf	-1535.86	kJ/mol	Joback Method
hf	-2019.43	kJ/mol	Joback Method
hfus	53.87	kJ/mol	Joback Method
hvap	93.97	kJ/mol	Joback Method
log10ws	-7.34		Crippen Method
logp	5.641		Crippen Method
mcvol	320.350	ml/mol	McGowan Method
pc	1174.44	kPa	Joback Method
rinpol	2361.00		NIST Webbook
rinpol	2361.00		NIST Webbook
tb	1016.95	K	Joback Method
tc	1245.03	K	Joback Method
tf	676.75	K	Joback Method
vc	1.266	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1029.44	J/molxK	1016.95	Joback Method
cpg	1039.28	J/molxK	1054.96	Joback Method
cpg	1047.84	J/molxK	1092.98	Joback Method
cpg	1055.18	J/molxK	1130.99	Joback Method
cpg	1061.38	J/molxK	1169.01	Joback Method
cpg	1066.50	J/molxK	1207.02	Joback Method
cpg	1070.61	J/molxK	1245.03	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=R538957&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R538957&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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.chemeo.com/cid/58-713-6/3-4-Dihydroxyphenylacetic-acid-propionyl-DTFMBz.pdf>

Generated by Cheméo on 2024-04-29 10:48:04.152353805 +0000 UTC m=+16676933.072931120.

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