

# Hydroquinone, bis(heptafluorobutyrate)

<b>Other names:</b>	Hydroquinone, bis-HFB
<b>Inchi:</b>	InChI=1S/C14H4F14O4/c15-9(16,11(19,20)13(23,24)25)7(29)31-5-1-2-6(4-3-5)32-8(30)1
<b>InchiKey:</b>	QEHZFJKTGOGEHM-UHFFFAOYSA-N
<b>Formula:</b>	C14H4F14O4
<b>SMILES:</b>	O=C(Oc1ccc(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)cc1)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	502.16

## Physical Properties

Property code	Value	Unit	Source
gf	-3008.36	kJ/mol	Joback Method
hf	-3394.87	kJ/mol	Joback Method
hfus	29.88	kJ/mol	Joback Method
hvap	48.79	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.163		Crippen Method
mvol	224.020	ml/mol	McGowan Method
pc	1402.74	kPa	Joback Method
rinpol	1168.00		NIST Webbook
rinpol	1168.00		NIST Webbook
tb	674.36	K	Joback Method
tc	839.41	K	Joback Method
tf	453.58	K	Joback Method
vc	0.946	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	668.83	J/molxK	674.36	Joback Method
cpg	678.57	J/molxK	701.87	Joback Method
cpg	687.44	J/molxK	729.38	Joback Method
cpg	695.51	J/molxK	756.89	Joback Method
cpg	702.86	J/molxK	784.39	Joback Method
cpg	709.55	J/molxK	811.90	Joback Method
cpg	715.64	J/molxK	839.41	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.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=U364787&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U364787&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

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