

# Octafluoro DBD

<b>Inchi:</b>	InChI=1S/C12F8O2/c13-1-2(14)6(18)10-9(5(1)17)21-11-7(19)3(15)4(16)8(20)12(11)22-1
<b>InchiKey:</b>	NNMHAVGAIQTMRH-UHFFFAOYSA-N
<b>Formula:</b>	C12F8O2
<b>SMILES:</b>	Fc1c(F)c(F)c2c(c1F)Oc1c(F)c(F)c(F)c(F)c1O2
<b>Mol. weight [g/mol]:</b>	328.11

## Physical Properties

Property code	Value	Unit	Source
gf	-1471.48	kJ/mol	Joback Method
hf	-1666.23	kJ/mol	Joback Method
hfus	50.79	kJ/mol	Joback Method
hvap	56.01	kJ/mol	Joback Method
log10ws	-5.64		Crippen Method
logp	4.697		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
rinpol	1441.00		NIST Webbook
tb	632.32	K	Joback Method
tc	815.06	K	Joback Method
tf	486.60	K	Joback Method
vc	0.643	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.30	J/molxK	632.32	Joback Method
cpg	379.52	J/molxK	662.78	Joback Method
cpg	386.36	J/molxK	693.23	Joback Method
cpg	392.82	J/molxK	723.69	Joback Method
cpg	398.93	J/molxK	754.14	Joback Method
cpg	404.71	J/molxK	784.60	Joback Method
cpg	410.18	J/molxK	815.06	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=R224014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R224014&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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