

# 1,4-dibromo-1,1,2,2-tetrafluorobutane

<b>Inchi:</b>	InChI=1S/C4H4Br2F4/c5-2-1-3(7,8)4(6,9)10/h1-2H2
<b>InchiKey:</b>	ASHCDEYFCNWSTR-UHFFFAOYSA-N
<b>Formula:</b>	C4H4Br2F4
<b>SMILES:</b>	FC(F)(Br)C(F)(F)CCBr
<b>Mol. weight [g/mol]:</b>	287.88
<b>CAS:</b>	18599-20-7

## Physical Properties

Property code	Value	Unit	Source
gf	-762.12	kJ/mol	Joback Method
hf	-875.17	kJ/mol	Joback Method
hfus	14.18	kJ/mol	Joback Method
hvap	31.51	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.394		Crippen Method
mcvol	109.300	ml/mol	McGowan Method
pc	3877.12	kPa	Joback Method
rinpol	823.90		NIST Webbook
tb	413.86	K	Joback Method
tc	602.42	K	Joback Method
tf	261.64	K	Joback Method
vc	0.433	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	196.63	J/mol×K	413.86	Joback Method
cpg	205.06	J/mol×K	445.29	Joback Method
cpg	212.73	J/mol×K	476.71	Joback Method
cpg	219.69	J/mol×K	508.14	Joback Method
cpg	226.00	J/mol×K	539.57	Joback Method
cpg	231.69	J/mol×K	571.00	Joback Method
cpg	236.83	J/mol×K	602.42	Joback Method

# Sources

<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=C18599207&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18599207&amp;Units=SI</a>
<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.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>

# 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>hvap:</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>rinpola:</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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