

# D-Arabinofuranose, tetrakis(trifluoroacetate) (isomer 1)

<b>Inchi:</b>	InChI=1S/C13H6F12O9/c14-10(15,16)6(26)30-1-2-3(32-7(27)11(17,18)19)4(33-8(28)12(
<b>InchiKey:</b>	XEYHCBFOSDMJES-UHFFFAOYSA-N
<b>Formula:</b>	C13H6F12O9
<b>SMILES:</b>	O=C(OCC1OC(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C1OC(=O)C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	534.16

## Physical Properties

Property code	Value	Unit	Source
gf	-3276.16	kJ/mol	Joback Method
hf	-3811.71	kJ/mol	Joback Method
hfus	53.01	kJ/mol	Joback Method
hvap	70.01	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	1.871		Crippen Method
mcvol	240.040	ml/mol	McGowan Method
pc	1398.55	kPa	Joback Method
rinpol	1080.80		NIST Webbook
rinpol	1080.80		NIST Webbook
tb	808.54	K	Joback Method
tc	990.69	K	Joback Method
tf	566.42	K	Joback Method
vc	0.991	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.07	J/mol×K	808.54	Joback Method
cpg	798.55	J/mol×K	838.90	Joback Method
cpg	807.08	J/mol×K	869.26	Joback Method
cpg	814.67	J/mol×K	899.61	Joback Method
cpg	821.38	J/mol×K	929.97	Joback Method
cpg	827.22	J/mol×K	960.33	Joback Method
cpg	832.23	J/mol×K	990.69	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380275&amp;Units=SI</a>
<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>

# 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/49-804-5/D-Arabinofuranose-tetrakis-trifluoroacetate-isomer-1.pdf>

Generated by Cheméo on 2024-04-23 14:09:47.575148705 +0000 UTC m=+16170636.495726026.

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