

# Succinic acid, di(4-trifluoromethoxybenzyl) ester

Inchi:	InChI=1S/C20H16F6O6/c21-19(22,23)31-15-5-1-13(2-6-15)11-29-17(27)9-10-18(28)30-1
InchiKey:	ORJUIAPHKVLTSL-UHFFFAOYSA-N
Formula:	C20H16F6O6
SMILES:	O=C(CCC(=O)OCc1ccc(OC(F)(F)F)cc1)OCc1ccc(OC(F)(F)F)cc1
Mol. weight [g/mol]:	466.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1517.94	kJ/mol	Joback Method
hf	-1954.21	kJ/mol	Joback Method
hfus	46.46	kJ/mol	Joback Method
hvap	81.63	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	5.051		Crippen Method
mvol	282.380	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpol	2284.00		NIST Webbook
rinpol	2284.00		NIST Webbook
tb	906.90	K	Joback Method
tc	1115.36	K	Joback Method
tf	590.20	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.16	J/mol×K	906.90	Joback Method
cpg	889.92	J/mol×K	941.64	Joback Method
cpg	899.52	J/mol×K	976.39	Joback Method
cpg	908.02	J/mol×K	1011.13	Joback Method
cpg	915.44	J/mol×K	1045.88	Joback Method
cpg	921.83	J/mol×K	1080.62	Joback Method
cpg	927.24	J/mol×K	1115.36	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=U381566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381566&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

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