

# Succinic acid, di(4-fluorophenethyl) ester

**Inchi:** InChI=1S/C20H20F2O4/c21-17-5-1-15(2-6-17)11-13-25-19(23)9-10-20(24)26-14-12-16-3  
**InchiKey:** UJZLPQFPMMBXCZ-UHFFFAOYSA-N  
**Formula:** C20H20F2O4  
**SMILES:** O=C(CCC(=O)OCCc1ccc(F)cc1)OCCc1ccc(F)cc1  
**Mol. weight [g/mol]:** 362.37

## Physical Properties

Property code	Value	Unit	Source
gf	-534.38	kJ/mol	Joback Method
hf	-887.83	kJ/mol	Joback Method
hfus	46.59	kJ/mol	Joback Method
hvap	82.67	kJ/mol	Joback Method
log10ws	-4.79		Crippen Method
logp	3.617		Crippen Method
mvol	263.560	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinpol	2562.00		NIST Webbook
rinpol	2562.00		NIST Webbook
tb	871.44	K	Joback Method
tc	1084.29	K	Joback Method
tf	538.54	K	Joback Method
vc	1.024	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	795.00	J/mol×K	871.44	Joback Method
cpg	808.15	J/mol×K	906.92	Joback Method
cpg	820.14	J/mol×K	942.39	Joback Method
cpg	830.99	J/mol×K	977.87	Joback Method
cpg	840.73	J/mol×K	1013.34	Joback Method
cpg	849.41	J/mol×K	1048.82	Joback Method
cpg	857.03	J/mol×K	1084.29	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=U381311&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381311&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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