

# Succinic acid, nonyl 4-trifluoromethylbenzyl ester

Inchi:	InChI=1S/C21H29F3O4/c1-2-3-4-5-6-7-8-15-27-19(25)13-14-20(26)28-16-17-9-11-18(12)
InchiKey:	ZANWCLYPJSLBDQ-UHFFFAOYSA-N
Formula:	C21H29F3O4
SMILES:	CCCCCCCCCOC(=O)CCC(=O)OCc1ccc(C(F)(F)F)cc1
Mol. weight [g/mol]:	402.45

## Physical Properties

Property code	Value	Unit	Source
gf	-820.71	kJ/mol	Joback Method
hf	-1338.39	kJ/mol	Joback Method
hfus	51.20	kJ/mol	Joback Method
hvap	79.84	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	5.823		Crippen Method
mcvol	303.180	ml/mol	McGowan Method
pc	1155.35	kPa	Joback Method
rinpol	2408.00		NIST Webbook
rinpol	2408.00		NIST Webbook
tb	858.70	K	Joback Method
tc	1054.45	K	Joback Method
tf	513.88	K	Joback Method
vc	1.194	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	959.81	J/mol×K	858.70	Joback Method
cpg	975.20	J/mol×K	891.33	Joback Method
cpg	989.51	J/mol×K	923.95	Joback Method
cpg	1002.78	J/mol×K	956.58	Joback Method
cpg	1015.04	J/mol×K	989.20	Joback Method
cpg	1026.35	J/mol×K	1021.83	Joback Method
cpg	1036.75	J/mol×K	1054.45	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382446&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382446&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/119-199-0/Succinic-acid-nonyl-4-trifluoromethylbenzyl-ester.pdf>

Generated by Cheméo on 2024-04-28 23:30:28.609514049 +0000 UTC m=+16636277.530091362.

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