

# Succinic acid, tetradecyl 2-(trifluoromethyl)benzyl ester

<b>Inchi:</b>	InChI=1S/C26H39F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-20-32-24(30)18-19-25(31)33-21
<b>InchiKey:</b>	ODVFOYCHNGXOPL-UHFFFAOYSA-N
<b>Formula:</b>	C26H39F3O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CCC(=O)OCc1ccccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	472.58

## Physical Properties

Property code	Value	Unit	Source
gf	-778.61	kJ/mol	Joback Method
hf	-1441.59	kJ/mol	Joback Method
hfus	64.15	kJ/mol	Joback Method
hvap	90.97	kJ/mol	Joback Method
log10ws	-8.71		Crippen Method
logp	7.773		Crippen Method
mcvol	373.630	ml/mol	McGowan Method
pc	853.96	kPa	Joback Method
tb	973.10	K	Joback Method
tc	1194.31	K	Joback Method
tf	570.23	K	Joback Method
vc	1.474	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1264.05	J/molxK	973.10	Joback Method
cpg	1281.39	J/molxK	1009.97	Joback Method
cpg	1297.28	J/molxK	1046.84	Joback Method
cpg	1311.82	J/molxK	1083.70	Joback Method
cpg	1325.08	J/molxK	1120.57	Joback Method
cpg	1337.13	J/molxK	1157.44	Joback Method
cpg	1348.05	J/molxK	1194.31	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=U381663&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381663&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>
<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>

# 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>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/91-447-5/Succinic-acid-tetradecyl-2-trifluoromethyl-benzyl-ester.pdf>

Generated by Cheméo on 2024-04-20 04:26:58.333576643 +0000 UTC m=+15876467.254153965.

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