

# Benzamide, N,N-dinonyl-4-trifluoromethyl-

<b>Inchi:</b>	InChI=1S/C26H42F3NO/c1-3-5-7-9-11-13-15-21-30(22-16-14-12-10-8-6-4-2)25(31)23-17
<b>InchiKey:</b>	VJMNVFYJKRPISH-UHFFFAOYSA-N
<b>Formula:</b>	C26H42F3NO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCC)C(=O)c1ccc(C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	441.61

## Physical Properties

Property code	Value	Unit	Source
gf	-328.91	kJ/mol	Joback Method
hf	-997.04	kJ/mol	Joback Method
hfus	63.19	kJ/mol	Joback Method
hvap	81.45	kJ/mol	Joback Method
log10ws	-9.42		Crippen Method
logp	8.649		Crippen Method
mvol	370.300	ml/mol	McGowan Method
pc	838.70	kPa	Joback Method
rinpol	2678.00		NIST Webbook
rinpol	2678.00		NIST Webbook
tb	886.83	K	Joback Method
tc	1085.75	K	Joback Method
tf	508.31	K	Joback Method
vc	1.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1226.17	J/molxK	886.83	Joback Method
cpg	1245.87	J/molxK	919.98	Joback Method
cpg	1264.42	J/molxK	953.14	Joback Method
cpg	1281.91	J/molxK	986.29	Joback Method
cpg	1298.44	J/molxK	1019.45	Joback Method
cpg	1314.09	J/molxK	1052.60	Joback Method
cpg	1328.96	J/molxK	1085.75	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308255&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/123-077-0/Benzamide-N-N-dinonyl-4-trifluoromethyl.pdf>

Generated by Cheméo on 2024-04-30 03:54:12.45141175 +0000 UTC m=+16738501.371989073.

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