

# trans-Cinnamamide, N-(4-methoxyphenyl)-3-trifluoromethyl-

Inchi:	InChI=1S/C17H14F3NO2/c1-23-15-8-6-14(7-9-15)21-16(22)10-5-12-3-2-4-13(11-12)17(1
InchiKey:	CBNQBQRHCQWJHR-BJMVGYQFSA-N
Formula:	C17H14F3NO2
SMILES:	COc1ccc(NC(=O)C=Cc2cccc(C(F)(F)F)c2)cc1
Mol. weight [g/mol]:	321.29

## Physical Properties

Property code	Value	Unit	Source
gf	-348.08	kJ/mol	Joback Method
hf	-615.28	kJ/mol	Joback Method
hfus	37.00	kJ/mol	Joback Method
hvap	71.11	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.366		Crippen Method
mvol	221.300	ml/mol	McGowan Method
pc	2023.58	kPa	Joback Method
rinpol	2506.00		NIST Webbook
rinpol	2506.00		NIST Webbook
tb	776.88	K	Joback Method
tc	997.81	K	Joback Method
tf	483.16	K	Joback Method
vc	0.854	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.62	J/molxK	776.88	Joback Method
cpg	637.71	J/molxK	813.70	Joback Method
cpg	649.76	J/molxK	850.52	Joback Method
cpg	660.85	J/molxK	887.34	Joback Method
cpg	671.08	J/molxK	924.17	Joback Method
cpg	680.52	J/molxK	960.99	Joback Method
cpg	689.25	J/molxK	997.81	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=U307371&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307371&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>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>rinpola:</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/118-627-5/trans-Cinnamamide-N-4-methoxyphenyl-3-trifluoromethyl.pdf>

Generated by Cheméo on 2024-05-03 04:29:06.554668652 +0000 UTC m=+16999795.475245967.

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