

# N,N-Dimethyl-2-(4-nitro-phenyl)-2-phenyl-acetami

<b>Inchi:</b>	InChI=1S/C16H16N2O3/c1-17(2)16(19)15(12-6-4-3-5-7-12)13-8-10-14(11-9-13)18(20)21
<b>InchiKey:</b>	CPJQCZRPEWVBCC-UHFFFAOYSA-N
<b>Formula:</b>	C16H16N2O3
<b>SMILES:</b>	CN(C)C(=O)C(c1ccccc1)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	284.31

## Physical Properties

Property code	Value	Unit	Source
gf	314.00	kJ/mol	Joback Method
hf	26.93	kJ/mol	Joback Method
hfus	37.35	kJ/mol	Joback Method
hvap	81.42	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	2.815		Crippen Method
mcvol	217.750	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinpol	2446.00		NIST Webbook
rinpol	2449.00		NIST Webbook
rinpol	2446.00		NIST Webbook
rinpol	2449.00		NIST Webbook
tb	841.53	K	Joback Method
tc	1096.81	K	Joback Method
tf	546.45	K	Joback Method
vc	0.816	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.30	J/molxK	841.53	Joback Method
cpg	647.79	J/molxK	884.08	Joback Method
cpg	660.02	J/molxK	926.62	Joback Method
cpg	671.11	J/molxK	969.17	Joback Method
cpg	681.19	J/molxK	1011.71	Joback Method
cpg	690.36	J/molxK	1054.26	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=R277875&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R277875&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinpol:</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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