

# 4-Nitrobenzoic acid, dodecyl ester

<b>Other names:</b>	dodecyl 4-nitrobenzoate
<b>Inchi:</b>	InChI=1S/C19H29NO4/c1-2-3-4-5-6-7-8-9-10-11-16-24-19(21)17-12-14-18(15-13-17)20(
<b>InchiKey:</b>	NIXNCBRIBRCGQE-UHFFFAOYSA-N
<b>Formula:</b>	C19H29NO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	335.44
<b>CAS:</b>	35507-03-0

## Physical Properties

Property code	Value	Unit	Source
gf	13.51	kJ/mol	Joback Method
hf	-465.99	kJ/mol	Joback Method
hfus	52.77	kJ/mol	Joback Method
hvap	86.57	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	5.673		Crippen Method
mcvol	279.670	ml/mol	McGowan Method
pc	1404.84	kPa	Joback Method
rinpol	2536.00		NIST Webbook
rinpol	2546.00		NIST Webbook
rinpol	2521.00		NIST Webbook
rinpol	2509.00		NIST Webbook
rinpol	2509.00		NIST Webbook
rinpol	2550.00		NIST Webbook
ripol	3288.00		NIST Webbook
ripol	3326.00		NIST Webbook
ripol	3341.00		NIST Webbook
ripol	3288.00		NIST Webbook
ripol	3342.00		NIST Webbook
tb	893.91	K	Joback Method
tc	1108.13	K	Joback Method
tf	558.60	K	Joback Method
vc	1.097	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	890.06	J/mol×K	893.91	Joback Method
cpg	905.19	J/mol×K	929.61	Joback Method
cpg	919.18	J/mol×K	965.32	Joback Method
cpg	932.09	J/mol×K	1001.02	Joback Method
cpg	943.96	J/mol×K	1036.72	Joback Method
cpg	954.84	J/mol×K	1072.42	Joback Method
cpg	964.77	J/mol×K	1108.13	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35507030&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35507030&amp;Units=SI</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>ripol:</b>	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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