

# (2E,4E,10E)-N-Isobutylhexadeca-2,4,10-trienamide

**Inchi:** InChI=1S/C20H35NO/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20(22)21-18-19(2)3/h8-9,11-13,15-17,19,21-22/t8,10,12,14,16,18,20  
**InchiKey:** QJFBVQUFPMOHQK-QUAMNOPSSA-N  
**Formula:** C20H35NO  
**SMILES:** CCCCCC=CCCCC=CC=CC(O)=NCC(C)C  
**Mol. weight [g/mol]:** 305.50  
**CAS:** 943546-13-2

## Physical Properties

Property code	Value	Unit	Source
hf	-189.55	kJ/mol	Joback Method
hvap	79.67	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	6.408		Crippen Method
mcvol	291.310	ml/mol	McGowan Method
pc	1124.57	kPa	Joback Method
rinpol	2558.10		NIST Webbook
rinpol	2558.10		NIST Webbook
tb	837.78	K	Joback Method
tc	1031.01	K	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C943546132&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**hf:** Enthalpy of formation at standard conditions

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>p<sub>c</sub>:</b>	Critical Pressure
<b>r<sub>inpol</sub>:</b>	Non-polar retention indices
<b>t<sub>b</sub>:</b>	Normal Boiling Point Temperature
<b>t<sub>c</sub>:</b>	Critical Temperature

Latest version available from:

<https://www.cheméo.com/cid/80-595-3/2E-4E-10E-N-Isobutylhexadeca-2-4-10-trienamide.pdf>

Generated by Cheméo on 2024-05-13 04:01:20.407686059 +0000 UTC m=+17862129.328263371.

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