

 <b>synerzine</b> <sup>TM</sup>	<b>Title:</b>	N304 Product Specification		
	<b>Document #:</b>	02-1006	<b>Rev #:</b>	001
	<b>Status:</b>	ACTIVE	<b>Date Issued:</b>	06/29/2018

**Product Identifiers**

Product Name:	DIMETHYLETHYL PYRAZINE, NATURAL
---------------	---------------------------------

Synerzine Item #	<b>N304</b>	CAS #	55031-15-7	FEMA #	3149
------------------	-------------	-------	------------	--------	------

**Material Properties**

Molecular Formula	C8H12N2	Flash Point (°F, CC)	157
Molecular Weight	136.2	Boiling Point	180°C
Shelf Life (days)	730	Physical State	Liquid

Solubility	Soluble in water and alcohol.
Storage and Stability	Store in fully closed container in cool (~20°C) dry place. Stable for years, with slight development of discoloration.
Handling Precautions	Avoid contact of eyes and skin. In case of contact, flush copiously with water. Keep away from heat and flame.

**Specified Critical Limits**

Critical Property	Test Method	UOM	Lower Limit	Upper Limit
Color	Visual Analysis	None	Colorless	Pale yellow
Odor	Organoleptic Analysis	None	Roasted, nutty	
Chemical Purity	Gas Chromatography	%	90.0%	100.0%
Density	Density Analysis	g/cm <sup>3</sup> @ 20°C	N/A	N/A
Refractive Index	Refractometric Analysis	nD20	1.495	1.505

**Notes**

Total pyrazine content 90% min  
 Composition: 2-Ethyl-3,6-dimethylpyrazine 73.8 - 76.5%  
                   2-Ethyl-3,5-dimethylpyrazine 10.9 - 12.9%  
                   2-Ethyl-5,6-dimethylpyrazine 9.9 - 12.3%  
                   2,5-Diethylpyrazine 1.1 - 2.3%

*This specification was generated electronically, and is therefore unsigned.*